



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| ACD2000Q    | A4Q-220-V3.04.08  | MPEG4 M-JPEG | 4        | 720x480        | *2    | *2     | *2  | *2             | -    | Yes                | Yes                  |                     |
| Note:       | 1.Not support framerate 8 due to camera firmware issue. |              |          |                |       |        |     |                |      |                    |                      |                     |
| ACD2100     | A1D-220-V3.08.08-AC                                     | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | Yes | Yes            | -    | Yes                | -                    |                     |
| ACD2200     |   | MPEG4 M-JPEG | 4        | 720x480        | 1-way | 8/8    | Yes | Yes            | -    | Yes                | -                    | Supported by design |
| ACD2300     |   | MPEG4 M-JPEG | 8        | 720x480        | 1-way | 16/16  | Yes | Yes            | -    | Yes                | -                    | Supported by design |
| ACD2400     | AGD-R2N-V2.05.02-AC                                     | MPEG4 M-JPEG | 16       | 720x480        | 1-way | 32/32  | Yes | Yes            | -    | Yes                | -                    |                     |
| ACM1011     | A1D-220-V3.10.22-AC                                     | MPEG4 M-JPEG | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                | -                    |                     |
| ACM1231     |   | MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM1232     |   | MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM1311     |   | MPEG4 M-JPEG | 1        | 720x480        | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM1431     |   | MPEG4 M-JPEG | 1        | 720x480        | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM1432     |   | MPEG4 M-JPEG | 1        | 720x480        | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM1511     |   | MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3001     |   | MPEG4 M-JPEG | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3011     |   | MPEG4 M-JPEG | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3211     |   | MPEG4 M-JPEG | 1        | 720x480        | 1-way | -      | Yes | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3311     |   | MPEG4 M-JPEG | 1        | 720x480        | 1-way | -      | Yes | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3401     |   | MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3411     |   | MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3511     |   | MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | -                    | Supported by design |
| ACM3601     | A1D-220-V3.10.22-AC                                     | MPEG4 M-JPEG | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                | -                    |                     |

|                |  |                  |   |           |       |     |     |     |   |     |      |                        |
|----------------|--|------------------|---|-----------|-------|-----|-----|-----|---|-----|------|------------------------|
| <b>ACM3603</b> |  | MPEG4<br>M-JPEG  | 1 | 640x480   | -     | -   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM3701</b> | A1D-220-<br>V3.10.22-<br>AC  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | -     | -   | -   | Yes | - | Yes | -    |                        |
| <b>ACM3703</b> |  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | -     | -   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM4000</b> |  | MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | -   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM4001</b> |  | MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | -   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM4100</b> | A1D-220-<br>V3.09.14-<br>AC  | MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | -   | -   | Yes | - | Yes | -    |                        |
| <b>ACM4200</b> |  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | -   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM4201</b> |  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | -   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM5001</b> |  | MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM5601</b> | A1D-220-<br>V3.08.08-<br>AC  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -   | Yes | - | Yes | -    |                        |
| <b>ACM5611</b> |  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>ACM5711</b> | A1D-220-<br>V3.08.08-<br>AC  | MPEG4<br>M-JPEG  | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    |                        |
| <b>ACM5811</b> | A1D-220-<br>V3.12.13-<br>AC  | MPEG4<br>M-JPEG  | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    |                        |
| <b>ACM7411</b> | A1D-220-<br>V3.09.14-<br>AC  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -   | Yes | - | Yes | -    |                        |
| Note:          | A1D-220-V3.09.14-AC: There is problem at 160x112 resolution.                       |                  |   |           |       |     |     |     |   |     |      |                        |
| <b>ACM7511</b> | A1D-220-<br>V3.12.13-<br>AC  | MPEG4<br>M-JPEG  | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    |                        |
| <b>ACM8201</b> | A1D-220-<br>V3.10.22-<br>AC  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | Yes | Yes | - | Yes | -    |                        |
| Note:          | A1D-220-V3.09.14-AC: There is problem at 160x112 resolution.                       |                  |   |           |       |     |     |     |   |     |      |                        |
| <b>ACM8211</b> | A1D-220-<br>V3.09.14-<br>AC  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | Yes | Yes | - | Yes | -    |                        |
| <b>ACM8511</b> | A1D-220-<br>V3.11.13-<br>AC  | MPEG4<br>M-JPEG  | 1 | 720x480   | 1-way | 1/1 | Yes | Yes | - | Yes | -    |                        |
| <b>AMU9401</b> | A1D-220-<br>V3.10.22-<br>NB  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 0/0 | -   | Yes | - | Yes | -    |                        |
| <b>AMU9711</b> | A1D-220-<br>V3.10.22-<br>NB  | MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 0/0 | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>B210</b>    | Refer to<br>E416<br>(V6.09.45<br>)   | H.264<br>MJPEG   | 1 | 3648x2736 | 1-way | 1/1 | Yes | Yes | - | Yes | Yes  | Supported<br>by design |
| Note:          | 1. Does not integrate PTZ(Delivered model can't use RS-485, we didn't workaround). |                  |   |           |       |     |     |     |   |     |      |                        |
| <b>B27</b>     | Refer to<br>B47(v6.08<br>.30)  | H.264 /<br>MJPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | - | Yes | Yes* | Supported<br>by design |

|                |  |               |   |           |       |     |      |     |   |     |      |                     |
|----------------|--|---------------|---|-----------|-------|-----|------|-----|---|-----|------|---------------------|
| <b>B47</b>     | V6.08.30   | H.264 / MJPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes  | Yes | - | Yes | Yes* |                     |
| <b>B410</b>    | Refer to E416 (V6.09.45)   | H.264 MJPEG   | 1 | 3648x2736 | 1-way | 1/1 | Yes  | Yes | - | Yes | Yes  | Supported by design |
| <b>B51</b>     | V6.09.45   | H.264 MJPEG   | 1 | 2592x1944 | 1-way | 1/1 | -    | Yes | - | Yes | Yes* |                     |
| Note:          | 1. Frame rate can not achieve to setting value with resolution above 800x600 in MJPEG.(Camera performance limitation)<br>2. When motion is triggered, frame rate is not unstable with format MJPEG.(Camera performance limitation) |               |   |           |       |     |      |     |   |     |      |                     |
| <b>B53</b>     | V6.06.16   | H.264 MJPEG   | 1 | 2048x1536 | 1-way | 1/1 | -    | Yes | - | Yes | Yes* |                     |
| Note:          | 1.The camera with highest quality and resolution is unable to achieve 30 fps and audio stutter.[camera performance limitation]   |               |   |           |       |     |      |     |   |     |      |                     |
| <b>B61</b>     | V6.08.30   | H.264 / MJPEG | 1 | 2592x1944 | 1-way | 2/2 | Yes  | Yes | - | Yes | Yes* |                     |
| <b>B67</b>     | V6.06.16   | H.264 MJPEG   | 1 | 2048x1536 | 1-way | 2/2 | Yes  | Yes | - | Yes | Yes* |                     |
| Note:          | 1.The camera with highest quality and resolution is unable to achieve 30 fps and audio stutter.[camera performance limitation]   |               |   |           |       |     |      |     |   |     |      |                     |
| <b>B81</b>     | Refer to B61 (v6.08.30)  | H.264 / MJPEG | 1 | 2592x1944 | 1-way | 2/2 | Yes  | Yes | - | Yes | Yes* | Supported by design |
| <b>B94</b>     | V6.06.16   | H.264 MJPEG   | 1 | 1280x960  | 1-way | 1/1 | Yes  | Yes | - | Yes | Yes* |                     |
| Note:          | 1.The camera with highest quality and resolution is unable to achieve 30 fps and audio stutter.[camera performance limitation]   |               |   |           |       |     |      |     |   |     |      |                     |
| <b>B95</b>     | A1D-500-V6.05.23-AC  | H.264 MJPEG   | 1 | 1920x1080 | 1-way | 1/1 | Yes* | Yes | - | Yes | Yes* |                     |
| Note:          | 1. Camera cannot achieve maximum FPS with high resolution and bitrate. (Camera performance limitation)<br>2. Audio has noise. (Camera performance limitation)  |               |   |           |       |     |      |     |   |     |      |                     |
| <b>B97</b>     | V6.06.16   | H.264 MJPEG   | 1 | 2048x1536 | 1-way | 1/1 | Yes  | Yes | - | Yes | Yes  |                     |
| <b>CAM5130</b> |  | MPEG4         | 1 | 720x480   | 1-way | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5140</b> |  | MPEG4         | 1 | 720x480   | 1-way | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5150</b> |  | MPEG4         | 1 | 720x480   | 1-way | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5200</b> |  | MPEG4         | 1 | 720x480   | -     | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5201</b> |  | MPEG4         | 1 | 720x480   | 1-way | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5221</b> | A1D-M2N-V2.08.11-AC  | MPEG4         | 1 | 720x480   | 1-way | 1/1 | -    | Yes | - | Yes | -    |                     |
| <b>CAM5300</b> |  | MPEG4         | 1 | 720x480   | -     | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5301</b> |  | MPEG4         | 1 | 720x480   | -     | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5321</b> |  | MPEG4         | 1 | 720x480   | -     | 1/1 | -    | Yes | - | Yes | -    | Supported by design |
| <b>CAM5500</b> |  | MPEG4         | 1 | 720x480   | -     | 1/1 | -    | Yes | - | Yes | -    | Supported by design |

|                |  |                          |   |           |       |     |     |     |   |     |      |                     |
|----------------|--|--------------------------|---|-----------|-------|-----|-----|-----|---|-----|------|---------------------|
| <b>CAM6100</b> |  | MPEG4                    | 1 | 720x480   | -     | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6200</b> | A1D-2.07.14-AC                             | MPEG4                    | 1 | 720x480   | -     | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6220</b> | A1D-2.07.14-AC                             | MPEG4                    | 1 | 720x480   | -     | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6500</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6510</b> | A1D-M2N-V2.08.11-AC                        | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    |                     |
| <b>CAM6520</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6600</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6610</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6620</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM6630</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 2/2 | Yes | Yes | - | Yes | -    | Supported by design |
| <b>CAM7100</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7120</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7200</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7220</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7300</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7301</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7320</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7321</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>CAM7322</b> |  | MPEG4                    | 1 | 720x480   | 1-way | 1/1 | -   | Yes | - | Yes | -    | Supported by design |
| <b>KCM3211</b> | A1D-311-V5.04.07-AC                        | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | Yes | Yes | - | Yes | Yes  |                     |
| Note:          | KCM3211's PTZ only support Zoom and Focus. |                          |   |           |       |     |     |     |   |     |      |                     |
| <b>D11</b>     | V6.03.17                                   | H264<br>MJPEG            | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>D12</b>     | Refer to D52 (V6.03.17)                    | H264<br>MJPEG            | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D21</b>     | Refer to D11 (V6.03.17)                    | H264<br>MJPEG            | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D22</b>     | Refer to E13 (V6.03.17)                    | H264<br>MJPEG            | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>D22FA</b>   | Refer to B51 (V6.09.45)                    | H.264<br>MJPEG           | 1 | 2592x1944 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* | Supported by design |

|             |   |             |   |           |       |     |     |     |   |     |      |                     |
|-------------|---|-------------|---|-----------|-------|-----|-----|-----|---|-----|------|---------------------|
| <b>D31</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D32</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D41</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D42</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D51</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D52</b>  | V6.03.17  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>D54</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D55</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D61</b>  | V6.03.17  | H264 MJPEG  | 1 | 1280x960  | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>D62</b>  | Refer to E84 (V6.03.17)   | H264 MJPEG  | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>D64</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D65</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D71</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D72</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D72A</b> | QA-A1D-500-V6.07.24-AC  | H264 MJPEG  | 1 | 2048x1536 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* |                     |
| <b>D81</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D82</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>D82A</b> | QA-A1D-500-V6.07.24-AC  | H264 MJPEG  | 1 | 2048x1536 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* |                     |
| <b>E11</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E12</b>  | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E13</b>  | V6.03.17  | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| Note:       | For E13 and the certificate camera:<br>1. It will auto diconnect with software. |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E21</b>  | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E210</b> | Refer to E416 (V6.09.45)  | H.264 MJPEG | 1 | 3648x2736 | 1-way | 1/1 | Yes | Yes | - | Yes | Yes  | Supported by design |
| <b>E22</b>  | Refer to E13 (V6.03.17)   | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |

|              |   |             |   |           |       |     |     |     |   |     |      |                     |
|--------------|---|-------------|---|-----------|-------|-----|-----|-----|---|-----|------|---------------------|
| <b>E22FA</b> | Refer to B51 (V6.09.45)   | H.264 MJPEG | 1 | 2592x1944 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* | Supported by design |
| <b>E23</b>   | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E24</b>   | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E25</b>   | Refer to D61 (V6.03.17)   | H264 MJPEG  | 1 | 1280x960  | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E26</b>   | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E31</b>   | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E32</b>   | Refer to E13 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E33</b>   | V6.03.17  | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E34</b>   | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E38</b>   | V7.00.44  | H.264 MJPEG | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes* |                     |
| Note:        | 1. Frame rate and bit rate can not achieve to setting value.(Camera performance limitation)   |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E41</b>   | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E416</b>  | V6.09.45  | H.264 MJPEG | 1 | 3648x2736 | 1-way | 1/1 | Yes | Yes | - | Yes | Yes  |                     |
| Note:        | 1. Zoom speed doesn't work.(Camera performance limitation)<br>2. Bit rate is insufficient with format H.264.(Camera performance limitation)<br>PTZ only support zoom & focus. |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E42</b>   | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E43</b>   | Refer to E13 (V6.03.17)   | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E44</b>   | Refer to E84 (V6.03.17)   | H264 MJPEG  | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E45</b>   | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E46</b>   | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E46A</b>  | V6.08.30  | H264 MJPEG  | 1 | 2048x1536 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* |                     |
| Note:        | 1. In high resolution or high quality with MJPEG is unable to achieve framerate setting value and video will delay.(Camera performance limitation)                            |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E51</b>   | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |

|             |  |             |   |           |       |     |     |     |   |     |      |                     |
|-------------|--|-------------|---|-----------|-------|-----|-----|-----|---|-----|------|---------------------|
| <b>E52</b>  | Refer to D11 (V6.03.17)  | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E53</b>  | Refer to D52 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E54</b>  | Refer to E13 (V6.03.17)  | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E55</b>  | Refer to D11 (V6.03.17)  | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E56</b>  | Refer to D52 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E61</b>  | Refer to D11 (V6.03.17)  | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E618</b> | Refer to E816 (V6.09.45)   | H.264 MJPEG | 1 | 3648x2736 | 1-way | 2/2 | Yes | Yes | - | Yes | Yes  | Supported by design |
| <b>E62</b>  | Refer to D52 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E63</b>  | Refer to E13 (V6.03.17)  | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E64</b>  | Refer to E34 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E65</b>  | Refer to E34 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E66</b>  | Refer to D61 (V6.03.17)  | H264 MJPEG  | 1 | 1280x960  | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E67</b>  | Refer to E84 (V6.03.17)  | H264 MJPEG  | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E71</b>  | Refer to D11 (V6.03.17)  | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E72</b>  | Refer to D52 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E73</b>  | Refer to E13 (V6.03.17)  | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E73A</b> | Refer to B51 (V6.09.45)  | H.264 MJPEG | 1 | 2592x1944 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* | Supported by design |
| <b>E74</b>  | Refer to E34 (V6.03.17)  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E81</b>  | Refer to D11 (V6.03.17)  | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E816</b> | V6.09.45   | H.264 MJPEG | 1 | 3648x2736 | 1-way | 2/2 | Yes | Yes | - | Yes | Yes  |                     |
| Note:       | 1.Bit rate can not achieve to setting value in H.264.(Camera performance limitation)<br>2.Stream 2,3 bit rate can not achieve to setting value.(Camera performance limitation)<br>PTZ only support zoom & focus. |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E82</b>  | A1D-500-V6.07.24-AC  | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| Note:       | 1.Actually camera bitrate may exceed configured value. (Camera firmware issue)<br>2.Main console Flip/mirror checkbox not sync with Web interface. (NUUO server limitation)                                      |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E83</b>  | Refer to E13 (V6.03.17)  | H264 MJPEG  | 1 | 2592x1944 | 1-way | -   | -   | Yes | - | Yes | Yes  |                     |

|                |   |             |   |           |       |     |     |     |   |     |      |                     |
|----------------|---|-------------|---|-----------|-------|-----|-----|-----|---|-----|------|---------------------|
| <b>E84</b>     | V6.03.17  | H264 MJPEG  | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| Note:          | For E84 and the certificate camera:<br>1. If set resolution to 640x360, it will get wrong value on get parameter.   |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E85</b>     | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E86</b>     | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E86A</b>    | Refer to E46A (V6.08.30)  | H264 MJPEG  | 1 | 2048x1536 | 1-way | 1/1 | -   | Yes | - | Yes | Yes* | Supported by design |
| <b>E87</b>     | Refer to E34 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| <b>E91</b>     | Refer to D11 (V6.03.17)   | H264 MJPEG  | 1 | 1280x720  | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E92</b>     | Refer to D52 (V6.03.17)   | H264 MJPEG  | 1 | 2048x1536 | -     | -   | -   | Yes | - | Yes | Yes  | Supported by design |
| <b>E925</b>    | A1D-500-V6.09.07-AC   | MJPEG H.264 | 1 | 2592x1944 | 1-way | 0/0 | -   | Yes | - | Yes | Yes* |                     |
| Note:          | 1. The camera with highest quality and resolution cannot achieve maximum FPS. (Camera performance limitation)<br>2. The camera cannot achieve maximum Bitrate. (Camera performance limitation)  |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E95</b>     | V6.06.16  | H.264 MJPEG | 1 | 1920x1080 | -     | -   | -   | Yes | - | Yes | Yes* |                     |
| <b>E96</b>     | A1D-500-V6.05.23-AC   | H264 MJPEG  | 1 | 2592x1944 | -     | -   | -   | Yes | - | Yes | Yes  |                     |
| Note:          | Fisheye camera with manual calibration in Crystal   |             |   |           |       |     |     |     |   |     |      |                     |
| <b>E97</b>     | V6.07.23  | H.264 MJPEG | 1 | 3648x2736 | -     | -   | -   | Yes | - | Yes | Yes* |                     |
| Note:          | 1. The actual framerate may not reach the setting value under high resolution and quality configuration. (Camera performance limitation)<br>2. The 2nd stream's actual bitrate is higher than settings.(Camera firmware issue)<br>3. The function "send mail by event" might fail to attach snapshot under high resolution (NUUO server limitation)<br>4. The motion signal would not stop when disabling motion event if the motion has been triggered. (NUUO server limitation) |             |   |           |       |     |     |     |   |     |      |                     |
| <b>Generic</b> | A1D-500-V6.05.23-AC   | H264 MJPEG  | 1 | 3648x2736 | 1-way | 1/1 | Yes | Yes | - | -   | Yes* |                     |
| Note:          | Test model: B52   |             |   |           |       |     |     |     |   |     |      |                     |
| <b>I51</b>     | Refer to I71(A1D-500-   | H.264 MJPEG | 1 | 2592x1944 | 1-way | 2/2 | -   | Yes | - | Yes | Yes  | Supported by design |
| Note:          | fisheye camera  |             |   |           |       |     |     |     |   |     |      |                     |
| <b>I71</b>     | A1D-500-V6.07.24-AC   | H.264 MJPEG | 1 | 2592x1944 | 1-way | 2/2 | Yes | Yes | - | Yes | Yes* |                     |
| Note:          | 1. Fisheye camera<br>2. Camera will automatically restart when it received too many upnp broadcasts in the same domain.   |             |   |           |       |     |     |     |   |     |      |                     |
| <b>I92</b>     | V6.08.30  | H.264 MJPEG | 1 | 1920x1080 | *2    | 2/2 | Yes | Yes | - | *2  | Yes* |                     |



|                 |  |                          |   |           |       |     |      |     |     |     |      |                        |
|-----------------|--|--------------------------|---|-----------|-------|-----|------|-----|-----|-----|------|------------------------|
| <b>I94</b>      | V6.06.16   | H.264<br>MJPEG           | 1 | 1920x1080 | 1-way | 4/2 | Yes  | Yes | -   | Yes | Yes* |                        |
| Note:           | 1.The camera with highest quality and resolution is unable to achieve 30 fps and audio stutter.[camera performance limitation]   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>I96</b>      | V6.08.30   | H.264<br>MJPEG           | 1 | 1920x1080 | 1-way | 4/2 | Yes* | Yes | -   | Yes | Yes* |                        |
| Note:           | 1. In high resolution or high quality with MJPEG is unable to achieve framerate setting value and audio will stutter.(Camera performance limitation)<br>2. I/O is not synchronized with camera web. (Camera Firmware issue)  |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM3311</b>  | A1D-311-<br>V5.05.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | -     | -   | Yes  | Yes | -   | Yes | Yes  |                        |
| <b>KCM3911</b>  | A1D-311-<br>V5.10.02   | H.264<br>MPEG4<br>M-JPEG | 1 | 1920x1080 | 1-way | 2/2 | -    | Yes | -   | Yes | Yes  |                        |
| Note:           | fisheye camera   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5111</b>  | A1D-311-<br>V5.04.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | -    | Yes | -   | Yes | Yes* |                        |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5211</b>  | A1D-311-<br>V5.04.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  |                        |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5211E</b> | Refer to<br>KCM5211  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  | Supported<br>by design |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5311</b>  | A1D-311-<br>V5.04.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 1920x1080 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  |                        |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5311E</b> | Refer to<br>KCM5311E   | H.264<br>MPEG4<br>M-JPEG | 1 | 1920x1080 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  | Supported<br>by design |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5511</b>  | V5.12.12   | H.264<br>MPEG4<br>M-JPEG | 1 | 1920x1080 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  |                        |
| Note:           | 1. When the FPS setting for 2nd stream is 20 in dual mode, it will get false value (30).(Camera firmware issue)<br>2. In single mode, the resolution N1920x1080 in video format H264 actually display N1920x1072.(Camera firmware issue)<br>3 .In dual mode, when stream 1 video format setting changed, some of the stream 2 settings will be changed as well, it makes CGI return wrong stream2 resolution value.(Camera limitation issue) |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM5611</b>  | A1D-311-<br>V5.12.12-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 1920x1080 | 1-way | 2/2 | Yes* | Yes | Yes | Yes | Yes* |                        |
| Note:           | 1.Max resolution with stream1 will be affected by stream2 and vice versa (Camera Firmware issue).<br>2.Motion detection does not support with MJPEG format (Camera Firmware issue).<br>3.Response is slow to RS485 (Camera Firmware issue).  |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM7111</b>  | A1D-311-<br>V5.04.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | -    | Yes | -   | Yes | Yes  |                        |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM7211</b>  | A1D-311-<br>V5.04.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  |                        |
| Note:           | On-edge motion: H.264 and MPEG4.   |                          |   |           |       |     |      |     |     |     |      |                        |
| <b>KCM7311</b>  | A1D-311-<br>V5.05.07-<br>AC  | H.264<br>MPEG4<br>M-JPEG | 1 | 2032x1920 | 1-way | 2/2 | Yes  | Yes | -   | Yes | Yes  |                        |

|                 |   |                           |   |           |       |       |     |     |   |     |      |                        |
|-----------------|---|---------------------------|---|-----------|-------|-------|-----|-----|---|-----|------|------------------------|
| <b>KCM7911</b>  | A1D-311-V5.10.02                                      | H.264<br>MPEG4<br>M-JPEG  | 1 | 1920x1080 | 1-way | 2/2   | -   | Yes | - | Yes | Yes  |                        |
| Note:           | 1.Dual-Stream Resolution 1280x720<br>2.fisheye camera |                           |   |           |       |       |     |     |   |     |      |                        |
| <b>KCM8111</b>  | V5.10.02  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1920x1080 | 1-way | 2/2   | Yes | Yes | - | Yes | Yes  |                        |
| <b>KCM8211</b>  | Refer to<br>KCM8111<br>(V5.10.02)                     | H.264<br>MPEG4<br>M-JPEG  | 1 | 1920x1080 | 1-way | 2/2   | Yes | Yes | - | Yes | Yes  |                        |
| <b>Q110</b>     | Refer to<br>B51<br>(V6.09.45)                         | H.264<br>MJPEG            | 1 | 2592x1944 | 1-way | 1/1   | -   | Yes | - | Yes | Yes* | Supported<br>by design |
| <b>Q112</b>     | Refer to<br>B51<br>(V6.09.45)                         | H.264<br>MJPEG            | 1 | 2592x1944 | 1-way | 1/1   | -   | Yes | - | Yes | Yes* | Supported<br>by design |
| <b>Q115</b>     | Refer to<br>B51<br>(V6.09.45)                         | H.264<br>MJPEG            | 1 | 2592x1944 | 1-way | 1/1   | -   | Yes | - | Yes | Yes* | Supported<br>by design |
| <b>Q19</b>      | Refer to<br>B51<br>(V6.09.45)                         | H.264<br>MJPEG            | 1 | 2592x1944 | 1-way | 1/1   | -   | Yes | - | Yes | Yes* | Supported<br>by design |
| <b>SED2100</b>  |   | MPEG4                     | 1 | 720x480   | 1-way | 2/2   | -   | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED2120</b>  | A1D-M2N-V2.08.11-AC                                   | MPEG4                     | 1 | 720x480   | -     | 2/2   | Yes | Yes | - | Yes | -    |                        |
| <b>SED2140</b>  |   | MPEG4                     | 1 | 720x480   | 1-way | 2/2   | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED2310Q</b> |   | MPEG4                     | 1 | 720x480   | 1-way | 2/2   | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED2320Q</b> |   | MPEG4                     | 1 | 720x480   | 1-way | 2/2   | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED2400</b>  |   | MPEG4                     | 2 | 720x480   | 1-way | 2/2   | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED2420</b>  | A1D-220-V3.08.08-AC                                   | MPEG4                     | 2 | 720x480   | 1-way | -     | -   | Yes | - | Yes | -    |                        |
| <b>SED2600</b>  |   | MPEG4                     | 8 | 720x480   | 1-way | 16/16 | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED2610</b>  |   | MPEG4                     | 8 | 720x480   | 1-way | 16/16 | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>SED26X0</b>  |   | MPEG4                     | 8 | 720x480   | 1-way | 16/16 | Yes | Yes | - | Yes | -    | Supported<br>by design |
| <b>TCD2100</b>  | A1D-310-V4.06.09-AC                                   | H.264<br>MPEG4<br>M-JPEG  | 1 | 720x480   | -     | 1/1   | Yes | Yes | - | Yes | Yes  |                        |
| <b>TCD2500</b>  | A1D-310-V4.06.08-AC                                   | H.264<br>MPEG4<br>M-JPEG  | 1 | 720x480   | 1-way | 2/1   | Yes | Yes | - | Yes | Yes  |                        |
| <b>TCM1111</b>  | A1D-310-V4.12.09-AC                                   | MJPEG,<br>MPEG4,<br>H.264 | 1 | 1280x1024 | No    | -     | -   | Yes | - | Yes | Yes  |                        |
| <b>TCM1231</b>  | A1D-310-V4.06.09-AC                                   | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1   | -   | Yes | - | Yes | Yes  |                        |
| <b>TCM1232</b>  |   | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1   | -   | Yes | - | Yes | Yes  | Supported<br>by design |
| <b>TCM1511</b>  | A1D-310-V4.06.09-AC                                   | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1   | -   | Yes | - | Yes | Yes  |                        |
| <b>TCM3001</b>  |   | H.264<br>MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | 1/1   | -   | Yes | - | Yes | Yes  | Supported<br>by design |

|                |  |                           |   |           |       |     |      |     |   |     |      |                     |
|----------------|--|---------------------------|---|-----------|-------|-----|------|-----|---|-----|------|---------------------|
| <b>TCM3011</b> | A1D-310-V4.07.10-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM3111</b> | A1D-310-V4.12.09-AC  | MJPEG,<br>MPEG4,<br>H.264 | 1 | 1280x1024 | No    | -   | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM3401</b> |  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | Yes | - | Yes | Yes  | Supported by design |
| <b>TCM3411</b> | A1D-310-V4.06.09-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM3511</b> | A1D-310-V4.06.00-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM4101</b> |  | H.264<br>MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | -   | -    | Yes | - | Yes | Yes  | Supported by design |
| <b>TCM4201</b> | A1D-310-V4.07.15-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM4301</b> | A1D-310-V4.05.13-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | -   | -    | Yes | - | Yes | Yes  | Supported by design |
| <b>TCM4511</b> | A1D-310-V4.12.09-AC  | MJPEG,<br>MPEG4,<br>H.264 | 1 | 1280x1024 | No    | -   | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM5001</b> | A1D-310-V4.07.15-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM5111</b> | A1D-310-V4.12.09-AC  | MJPEG,<br>MPEG4,<br>H.264 | 1 | 1280x1024 | No    | -   | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM5311</b> | A1D-310-V4.05.13-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x960  | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM5312</b> |  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x960  | 1-way | 1/1 | -    | Yes | - | Yes | Yes  | Supported by design |
| <b>TCM5601</b> | A1D-310-V4.06.09-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | -   | - | Yes | Yes  | Supported by design |
| <b>TCM5611</b> | A1D-310-V4.06.09-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | -   | - | Yes | Yes  |                     |
| <b>TCM6630</b> | A1D-310-V4.12.09-AC  | MJPEG,<br>MPEG4,<br>H.264 | 1 | 720x480   | 1-Way | 2/1 | Yes  | Yes | - | Yes | Yes  |                     |
| Note:          | DI/DO can't work, FW issue   |                           |   |           |       |     |      |     |   |     |      |                     |
| <b>TCM7011</b> | A1D-310-V4.06.09-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 640x480   | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TCM7411</b> |  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | -   | - | Yes | Yes  | Supported by design |
| <b>TCM7811</b> | A1D-310-V4.07.15-AC  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x960  | 1-way | 1/1 | -    | Yes | - | Yes | Yes  |                     |
| <b>TMU9811</b> | A1D-310-V4.07.10-NB  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | -   | - | Yes | -    |                     |
| <b>TMU9911</b> | A1D-310-V4.07.10-NB  | H.264<br>MPEG4<br>M-JPEG  | 1 | 1280x1024 | 1-way | 1/1 | -    | -   | - | Yes | -    | Supported by design |
| Note:          | ACD / ACM series cameras do not support FW 3.11.11.  |                           |   |           |       |     |      |     |   |     |      |                     |
| Note:          | Only <b>two</b> I/O are shown on the interface as adding <b>one</b> channel on video server. |                           |   |           |       |     |      |     |   |     |      |                     |
| <b>V21</b>     | H1.03.01   | MJPEG<br>H.264            | 1 | 960x576   | 1-way | 1/1 | Yes* | Yes | - | Yes | Yes* |                     |
| <b>V23</b>     | H1.03.01   | MJPEG<br>H.264            | 4 | 960x576   | 1-way | 4/4 | Yes* | Yes | - | Yes | Yes* |                     |

|            |  |                |    |         |       |       |      |     |   |     |      |  |
|------------|--|----------------|----|---------|-------|-------|------|-----|---|-----|------|--|
| <b>V24</b> | H1.03.01   | MJPEG<br>H.264 | 4  | 960x576 | 1-way | 4/4   | Yes* | Yes | - | Yes | Yes* |  |
| Note:      | 1.Camera is unable to achieve 30fps. (Camera Firmware issue) |                |    |         |       |       |      |     |   |     |      |  |
| <b>V32</b> | H2.02.31   | MJPEG<br>H.264 | 16 | 960x576 | 1-way | 16/16 | Yes* | Yes | - | Yes | Yes* |  |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| ADKIL134RT  |  | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -                  | Yes*                 | Supported by design |
| Note:       | 1.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. PTZ controls are not supported via ONVIF. (Camera Firmware issue)<br>3. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>4. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>5. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                    |                      |                     |
| ADKID134RT  |  | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -                  | Yes*                 | Supported by design |
| Note:       | 1.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. PTZ controls are not supported via ONVIF. (Camera Firmware issue)<br>3. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>4. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>5. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                    |                      |                     |
| ADKID207VRT |  | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -                  | Yes*                 | Supported by design |
| Note:       | 1.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. PTZ controls are not supported via ONVIF. (Camera Firmware issue)<br>3. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>4. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>5. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                    |                      |                     |
| ADKID204VRT |  | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -                  | Yes*                 | Supported by design |
| Note:       | 1.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. PTZ controls are not supported via ONVIF. (Camera Firmware issue)<br>3. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>4. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>5. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                    |                      |                     |
| ADKID207RT  |  | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -                  | Yes*                 | Supported by design |
| Note:       | 1.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. PTZ controls are not supported via ONVIF. (Camera Firmware issue)<br>3. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>4. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>5. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                    |                      |                     |
| ADKIL207RT  |  | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -                  | Yes*                 | Supported by design |
| Note:       | 1.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. PTZ controls are not supported via ONVIF. (Camera Firmware issue)<br>3. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>4. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>5. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                    |                      |                     |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name | Tested Firmware | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|-----------------|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| ADC-V520    | 0100h           | H.264<br>MPEG4<br>MJPEG | 1        | 1280x800       | *1    | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| ADC-V620PT  | 0102b           | H.264<br>MPEG4<br>MJPEG | 1        | 1280x800       | *1    | -      | Yes | Yes            | Yes  | Yes                  |         |
| ADC-VS420   | 0100d           | H.264<br>MPEG4<br>MJPEG | 4        | 720x576        | *1    | 4      | *2  | Yes            | Yes  | Yes                  |         |



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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|--------------|-----------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| ADCi600-D131 | AD00-00-15-11   | MJPEG H.264  | 1        | 1280x720       | 1-way | 2/1    | -   | Yes            | *1   | Yes                  |         |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| AM2030D     | refer to AM2590D  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| AM2110D     | refer to AM2120D  | H.264<br>M-JPEG          | 1        | 1600x1200      | 1-way | 0/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| AM2120D     | 6.B.2.9031  | H.264<br>M-JPEG          | 1        | 1600x1200      | 1-way | 0/0    | -   | Yes            | Yes  | Yes                  |                     |
| AH2816T     | V6.M.2.1277<br>9  | H.264<br>MPEG4<br>M-JPEG | 1        | 1536x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| AM2221D     | refer to AM2231D  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| AM2231D     | 6.C.2.8943  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| <b>Note</b> | AM2221D, AM2231D preset name can't contain blanks.                                      |                          |          |                |       |        |     |                |      |                      |                     |
| AM2530D     | refer to AM2590D  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| AM2570D     | refer to AM2590D  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| AM2590D     | 6.D.2.9659  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| <b>Note</b> | Initial output status will not synchronize to real output voltage by HW issue.          |                          |          |                |       |        |     |                |      |                      |                     |
| AM2630D     | refer to AM2590D  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| AM2730D     | refer to AM2590D  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>Note</b> | All models always can use http port 80 to connect after changing http port by FW issue. |                          |          |                |       |        |     |                |      |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crvstal

| Device Name | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch          | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks                |
|-------------|--|-----------------|----------|----------------|-------|-----------------|-----|----------------|--------------------|----------------------|------------------------|
| AV1115      | 65225  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | 1(*2)/<br>1(*2) | -   | Yes            | Yes                | Yes*                 |                        |
| Note:       | AV1115 include D4F-AV1115-3312 and D4S-AV1115-3312<br>1.DI can't trigger.<br>2.DO no response via CGI command. |                 |          |                |       |                 |     |                |                    |                      |                        |
| AV1125      | refer to<br>AV1115<br>(65225)  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | 1(*2)/<br>1(*2) | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1145      | refer to<br>AV1115<br>(65225)  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | 1(*2)/<br>1(*2) | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1255      | refer to<br>AV1115<br>(65225)  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | 1(*2)/<br>1(*2) | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1300      | 64328  | M-JPEG          | 1        | 1280x1024      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1305      | refer to<br>AV1115<br>(65225)  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | 1(*2)/<br>1(*2) | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1310      |  | M-JPEG          | 1        | 1280x1024      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1315      | 65191  | M-JPEG<br>H.264 | 1        | 1280x1024      | -     | -               | -   | Yes            | Yes                | Yes*                 |                        |
| AV1325      |  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1355      | 65130  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV1455      | refer to<br>AV1115<br>(65225)  | H.264<br>M-JPEG | 1        | 1280x1024      | -     | 1(*2)/<br>1(*2) | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV2000      | 64328  | M-JPEG          | 1        | 1600x1184      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV2100      | 64328  | M-JPEG          | 1        | 1600x1184      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV2105      | 64331  | H.264<br>M-JPEG | 1        | 1600x1184      | -     | -               | -   | Yes            | Yes                | Yes*                 |                        |
| AV2110      |  | M-JPEG          | 1        | 1600x1184      | -     | -               | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| AV2115      | 65225  | H.264<br>M-JPEG | 1        | 1920x1080      | -     | 1/1             | -   | Yes            | Yes                | Yes*                 |                        |
| AV2116      | refer to<br>AV2115<br>(65218)  | H.264<br>M-JPEG | 1        | 1920x1080      | -     | 1/1             | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |
| Note:       | AV2115 include D4F-AV2115-3312 and D4S-AV2115-3312   |                 |          |                |       |                 |     |                |                    |                      |                        |
| AV2125      | 65201  | H.264<br>M-JPEG | 1        | 1920x1056      | -     | 1/1             | -   | Yes            | Yes                | Yes*                 |                        |
| AV2146      | refer to<br>AV2115<br>(65225)  | H.264<br>M-JPEG | 1        | 1920x1080      | -     | 1/1             | -   | Yes            | Yes                | Yes*                 | Supported<br>by design |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crvstal

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|---------|-----|----------------|--------------------|----------------------|---------------------|
| AV2155      | 64803   | H.264 M-JPEG | 1        | 1600x1184      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV2225      | refer to AV2115 (65225)   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2226      | refer to AV2115 (65225)   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2245      | refer to AV2115 (65225)   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2246      | refer to AV2115 (65225)   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2255AM    | 65218   | H.264 M-JPEG | 1        | 1920x1080      | *1    | 1(*1)/1 | Yes | Yes            | Yes                | Yes*                 |                     |
| AV2256      | refer to AV2255 (65218)   | H.264 M-JPEG | 1        | 1920x1080      | *1    | 1/1     | Yes | Yes            | Yes                | Yes*                 | Supported by design |
| AV2455DN-F  | 65220   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | 1. AV2455DN would reboot after connecting DO port.<br>2. Audio function possible doesn't work after connect/disconnect, and need to reboot camera to recover.   |              |          |                |       |         |     |                |                    |                      |                     |
| AV2456      | refer to AV2455 (65220)   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2805      | refer to AV2115 (65225)   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2815      | 65191   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV2825      |   | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3100      | 64328   | M-JPEG       | 1        | 2048x1536      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV3100M     | 64327   | M-JPEG       | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | 1. DI/DO is not active so that we can't integrate it. (Camera Firmware issue)<br>2. Camera is unable to achieve ordinary FPS due to insufficient performance. (Camera performance limitation)<br>3. The connections at dual stream mode are unstable. (Camera performance limitation)<br>4. Can not search the camera by camera search function. (Camera Firmware issue)<br>5. Auto detect function fail. (Camera Firmware issue) |              |          |                |       |         |     |                |                    |                      |                     |
| AV3105      | refer to AV3115 (65225)   | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1(*2) | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3110      |   | M-JPEG       | 1        | 1920X1216      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV3115      | 65225   | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1(*2) | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | AV3115 include D4F-AV3115-3312 and D4S-AV3115-3312  |              |          |                |       |         |     |                |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                                    | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|---------|-----|----------------|--------------------|----------------------|---------------------|
| AV3116      | 65219  | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| AV3116DN    | 65219  | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3125      | 65218  | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3130      | 61906  | M-JPEG       | 1        | 2048x1536      | -     | -       | -   | Need to retest | Yes                | Yes*                 |                     |
| AV3135      | 65135  | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | AV3115 include D4F-AV3115-3312 and D4S-AV3115-3312 |              |          |                |       |         |     |                |                    |                      |                     |
| AV3145      | 65219  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3146      | 65219  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note        | 1. The streaming has low FPS under high quality.   |              |          |                |       |         |     |                |                    |                      |                     |
| AV3155      | 65113  | H.264 M-JPEG | 1        | 2048x1536      | -     | -       | -   | Yes            | Yes                | Yes*                 | Tested by customer  |
| AV3225      | refer to AV3115 (65225)                            | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1(*2) | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3226      | refer to AV3115 (65225)                            | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1(*2) | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3245      | refer to AV3115 (65225)                            | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1(*2) | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3246      | refer to AV3115 (65225)                            | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1(*2) | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV3255      | 65218  | H.264 M-JPEG | 1        | 2048x1536      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV3256      | 65219  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note        | 1. The streaming has low FPS under high quality.   |              |          |                |       |         |     |                |                    |                      |                     |
| AV3455      | Refer to AV3105(65225)                             | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| AV3456DN-F  | 65220  | H.264 M-JPEG | 1        | 2048x1536      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| AV5100      | 61906  | M-JPEG       | 1        | 2560x1600      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV5105      | 64331  | H.264 M-JPEG | 1        | 2560x1600      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV5110      |  | M-JPEG       | 1        | 2560x1600      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crvstal

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|---------|-----|----------------|--------------------|----------------------|---------------------|
| AV5115      | 65225   | H.264 M-JPEG | 1        | 2560x1600      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | AV5115 include D4F-AV5115-3312 and D4S-AV5115-3312  |              |          |                |       |         |     |                |                    |                      |                     |
| AV5125      | 65218   | H.264 M-JPEG | 1        | 2592x1944      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| AV5155      | 65152   | H.264 M-JPEG | 1        | 2592x1944      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV5245      | 65221   | H.264 M-JPEG | 1        | 2592x1944      | -     | 1/1     | Yes | Yes            | Yes                | Yes*                 |                     |
| Note:       | Fps would not meet setting due to camera performance.   |              |          |                |       |         |     |                |                    |                      |                     |
| AV5245DN    | 65229   | H.264 M-JPEG | 1        | 2560x1920      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | Fisheye camera  |              |          |                |       |         |     |                |                    |                      |                     |
| AV5255AM    | 65218   | H.264 M-JPEG | 1        | 2592x1944      | *1    | 1(*1)/1 | Yes | Yes            | Yes                | Yes*                 |                     |
| AV5455DN-F  | 65220   | H.264 M-JPEG | 1        | 2592x1944      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV8180      | 65010   | M-JPEG       | 4        | 1600x1184      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV8185      | 65183   | H.264 M-JPEG | 4        | 1600x1200      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV8185DN    | 65183   | H.264 M-JPEG | 4        | 1600x1200      | -     | -       | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV8360      | 65010   | M-JPEG       | 4        | 1600x1184      | -     | -       | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV8365      | 65183   | H.264 M-JPEG | 4        | 1600x1200      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV8365DN    | 65183   | H.264 M-JPEG | 4        | 1600x1200      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| Note:       | AV8185DN and AV8365DN<br>1. Four channels must use the same protocol and format.<br>2. If main stream is Mjpeg, the vision will flash when using dual stream. |              |          |                |       |         |     |                |                    |                      |                     |
| AV10005     | 65147   | H.264 M-JPEG | 1        | 3648x2752      | -     | -       | -   | Yes            | Yes                | Yes*                 |                     |
| AV10115     | 65225   | H.264 M-JPEG | 1        | 3648x2752      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| AV10225     | Refer to AV10115(65225)   | H.264 M-JPEG | 1        | 3648x2752      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |
| AV10255     | Refer to AV10115(65225)   | H.264 M-JPEG | 1        | 3648x2752      | -     | 1/1     | -   | Yes            | Yes                | Yes*                 |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal  
 For PTZ:  
 Yes\*: Joystick support to control PTZ speed in Crvstal

| Device Name   | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------|---|--------------|----------|----------------|-------|--------|-----|----------------|--------------------|----------------------|---------------------|
| AV10255PM TIR | 65228   | H.264 M-JPEG | 1        | 3648x2752      | -     | 1/1    | Yes | Yes            | Yes                | Yes*                 |                     |
| Note:         | 1. Camera is unable to achieve maximum FPS. (camera performance limitation)<br>2. PTZ only support zoom and focus.  |              |          |                |       |        |     |                |                    |                      |                     |
| AV10256PM TIR | refer to AV10255P MTIR(65228)   | H.264 M-JPEG | 1        | 3648x2752      | -     | 1/1    | Yes | Yes            | Yes                | Yes*                 | Supported by design |
| AV12176       | 65192   | H.264 MJPEG  | 4        | 2048x1536      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| Note:         | 1. Stream2 cannot achieve maximum bitrate. (Camera Firmware issue)<br>2. Bitrate list is not synchronized with camera web. (Camera Firmware issue)<br>3. Snapshot's resolution is not as same as live view. (Camera Firmware issue)<br>4. Camera cannot achieve maximum fps with MJPEG. (Camera performance limitaiion) |              |          |                |       |        |     |                |                    |                      |                     |
| AV12186       | 65184   | H264 MJPEG   | 4        | 2048x1536      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| Note:         | DI can't work.  |              |          |                |       |        |     |                |                    |                      |                     |
| AV12186DN     | refer to AV12186(65184)   | H264 MJPEG   | 4        | 2048x1536      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 | Supported by design |
| AV12366DN     | 65188   | H.264 M-JPEG | 4        | 2048x1536      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| Note:         | Camera is unable to achieve maximum FPS. (camera performance limitation)  |              |          |                |       |        |     |                |                    |                      |                     |
| AV20175DN     | 65188   | H.264 M-JPEG | 4        | 2560x1920      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| AV20185       | 65183   | H.264 M-JPEG | 4        | 2560x1920      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| Note:         | AV20185 include AV20185DN, AV20185CO  |              |          |                |       |        |     |                |                    |                      |                     |
| AV20365       | 65183   | H.264 M-JPEG | 4        | 2560x1920      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| Note:         | On-edge motion: turn off the "enable extended on motion detection" function on camera web.<br>AV20365 include AV20365DN, AV20365CO  |              |          |                |       |        |     |                |                    |                      |                     |
| AV40185       | 65186   | H.264 M-JPEG | 4        | 3648x2752      | -     | 1/1    | -   | Yes            | Yes                | Yes*                 |                     |
| Generic       |   | H.264 M-JPEG | 1 or 4   | By camera      | 1-way | 1/1    | Yes | Yes            | Yes                | Yes*                 |                     |
| Note:         | Generic test model: AV5245 and AV12186<br>1. Fps would not meet setting due to camera performance.<br>2. Audio function possible doesn't work after connect/disconnect, and need to reboot camera to recover.   |              |          |                |       |        |     |                |                    |                      |                     |
| Note:         | For multiple-channel models, such as AV8180 and AV20185DN, there might be some issues if configuring different protocols on each channel. (i.e. the resolution we receive is half of the original)  |              |          |                |       |        |     |                |                    |                      |                     |
| Note:         | All arecont cameras.<br>1. Fps would not meet setting due to camera performance.  |              |          |                |       |        |     |                |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| FB2027-1    | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB2027-2    | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB2027-3    | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB2028      | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB2028-T1   | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB2028-T2   | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB2028-TM   | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| Note        | 1. MJPEG could not reach up to higher FPS<br>2. UPNP search failure when change web port from 80 to another |                         |          |                |       |        |     |                |      |                      |         |
| FB3027      | 2.5.1057.60   | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB3028-RT1  | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB3028-RT2  | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FB3028-RTM  | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FD2020      | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FD3020      | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FD3020-M    | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FV2006      | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name    | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|----------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| FV2028         | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FV3028         | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FV3028-RT      | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FV3028-RTM     | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| FX2000         | 2.5.1057.60   | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| Note           | 1. MJPEG could not reach up to higher FPS<br>2. UPnP search failure when change web port from 80 to another |                         |          |                |       |        |     |                |      |                      |         |
| FX3000-R       | Refer to FB3027 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| SF2121H-BHR-30 | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| SF2121H-BHR-50 | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| SF2121H-R      | Refer to FX2000 (FW 2.5.1057.60)  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                   | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------------------------|-----------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| 205         |                                   | M-JPEG          | 1        | 640x480        | -     | -      | -    | Yes            | -    | Yes                  | Supported by design |
| 206         |                                   | M-JPEG          | 1        | 640x480        | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| 206M        |                                   | M-JPEG          | 1        | 1280x1024      | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| 206W        |                                   | M-JPEG          | 1        | 640x480        | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| 207         | 4.40                              | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| 207MW       |                                   | MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 207W        |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | Not support audio in M-JPEG       |                 |          |                |       |        |      |                |      |                      |                     |
| 209FD       |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| 209FD-R     |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| 209MFD      |                                   | MPEG4<br>M-JPEG | 1        | 1280x1024      | -     | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| 209MFD-R    |                                   | MPEG4<br>M-JPEG | 1        | 1280x1024      | -     | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| 210         |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | -     | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 2100        | 2.31                              | M-JPEG          | 1        | 640x480        | -     | -      | -    | -              | -    | -                    |                     |
| 210A        | 4.40                              | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| 211         |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | -     | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 211A        |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 211M        |                                   | MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 211W        |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 212         |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 212 include 212 PTZ and 212 PTZ-V |                 |          |                |       |        |      |                |      |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                   | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------------------------|-----------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| 213         |                                   | MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | 2/3    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 213 include 213 PTZ               |                 |          |                |       |        |      |                |      |                      |                     |
| 214         | 4.33                              | MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | 214 include 214 PTZ               |                 |          |                |       |        |      |                |      |                      |                     |
| 215         |                                   | MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 215 include 215 PTZ and 215 PTZ-E |                 |          |                |       |        |      |                |      |                      |                     |
| 216FD       |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 216FD-V     |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 216MFD      |                                   | MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 216MFD-V    |                                   | MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 221         |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | -     | 2/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 223M        |                                   | MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 2/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 225FD       |                                   | MPEG4<br>M-JPEG | 1        | 640x480        | -     | 2/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 231D        |                                   | MPEG4<br>M-JPEG | 1        | 704x576        | -     | 4/4    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 231D include 231D+                |                 |          |                |       |        |      |                |      |                      |                     |
| 232D        |                                   | MPEG4<br>M-JPEG | 1        | 704x576        | -     | 4/4    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 232D include 232D+                |                 |          |                |       |        |      |                |      |                      |                     |
| 233D        |                                   | MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| 2400        |                                   | M-JEPG          | 4        | 704x576        | -     | 4/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 240Q        |                                   | M-JEPG          | 4        | 704x576        | -     | 4/4    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 240Q Blade  |                                   | M-JEPG          | 4        | 704x576        | -     | 4/4    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 241Q        |                                   | MPEG4<br>M-JPEG | 4        | 704x576        | -     | 4/4    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 241Q Blade  |                                   | MPEG4<br>M-JPEG | 4        | 704x576        | -     | 4/4    | -    | Yes            | Yes  | Yes                  | Supported by design |
| 241QA       | 4.30                              | MPEG4<br>M-JPEG | 4        | 704x576        | 1-way | 4/4    | -    | Yes            | Yes  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch     | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|------------|-----|----------------|------|----------------------|---------------------|
| 241S        |  | MPEG4<br>M-JPEG          | 1        | 704x576        | -     | 4/4        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 241S Blade  |  | MPEG4<br>M-JPEG          | 1        | 704x576        | -     | 4/4        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 241SA       |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 4/4        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 242S        |  | MPEG4<br>M-JPEG          | 1        | 704x576        | -     | 4/4        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 243Q        |  | MPEG4<br>M-JPEG          | 1        | 704x576        | -     | 1/1        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 243Q Blade  |  | MPEG4<br>M-JPEG          | 1        | 704x576        | -     | 1/1        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 243SA       |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 4/4        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 2460        |  | M-JEPG                   | 4        | 704x576        | -     | 4/1        | -   | Yes            | Yes  | Yes                  | Supported by design |
| 247S        |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1        | -   | Yes            | Yes  | Yes                  | Supported by design |
| Generic     |  | H.264<br>MPEG4<br>M-JPEG | Max<br>4 | by Camera      | 1-way | Max<br>4/4 | Yes | Yes            | -    | Yes*                 |                     |
| Note:       | Only guarantee stream works fine.  |                          |          |                |       |            |     |                |      |                      |                     |
| F41         | 5.85.3   | H.264<br>MJPEG           | 1        | 1920x1080      | *2    | *2(4/4)    | -   | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. Does not support ACAP Motion (MainConsole). (Old Motion Setting: <a href="http://IP:PORT/operator/motionDetection.shtm">http://IP:PORT/operator/motionDetection.shtm</a> )  |                          |          |                |       |            |     |                |      |                      |                     |
| F44         | 5.85.3   | H.264<br>MJPEG           | 4        | 1920x1080      | *2    | *2(4/4)    | -   | *2             | *2   | Yes*                 |                     |
| Note:       | 1. Frame rate list may not sync with web. (Camera Firmware issue)<br>2. Does not support ACAP Motion (MainConsole). (Old Motion Setting: <a href="http://IP:PORT/operator/motionDetection.shtml?nbr=0&amp;id=13">http://IP:PORT/operator/motionDetection.shtml?nbr=0&amp;id=13</a> )(NUUO server limitation) |                          |          |                |       |            |     |                |      |                      |                     |
| M1004-W     | 5.40.5.1   | H.264<br>MJPEG           | 1        | 1280x800       | -     | 1/1        | -   | Yes            | Yes  | Yes*                 |                     |
| M1011       | 5.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -     | -          | -   | Yes            | Yes  | Yes                  |                     |
| M1011-W     | 5.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -     | -          | -   | Yes            | Yes  | Yes                  |                     |
| M1013       | 5.40.5.1   | H.264<br>M-JPEG          | 1        | 800x600        | 1-way | -          | -   | Yes            | Yes  | Yes                  |                     |
| M1014       | 5.40.5   | H.264<br>M-JPEG          | 1        | 1280x800       | -     | -          | -   | Yes            | Yes  | Yes                  |                     |
| M1025       | 5.40.5   | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -          | -   | *2             | *2   | Yes*                 | Tested by link      |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| M1031-W     | 5.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| M1034-W     | 5.40beta1  | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| M1054       | 5.15   | H.264<br>M-JPEG          | 1        | 1024x640       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| M1103       |  | H.264<br>M-JPEG          | 1        | 800x600        | -     | -      | Yes* | Yes            | Yes* | Yes                  | Supported by design |
| M1104       | 5.09   | H.264<br>M-JPEG          | 1        | 1280x800       | -     | -      | -    | Yes            | Yes* | Yes                  |                     |
| M1113       | 5.08   | H.264<br>M-JPEG          | 1        | 800x600        | -     | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| M1114       |  | H.264<br>M-JPEG          | 1        | 1280x800       | -     | -      | -    | Yes            | Yes* | Yes                  | Supported by design |
| Note:       | M1113-E is compatible with M1113, M1114-E is compatible with M1114 |                          |          |                |       |        |      |                |      |                      |                     |
| M1143-L     | 5.40beta19   | H.264<br>M-JPEG          | 1        | 800x600        | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| M1144       | 5.40.10.4  | H.264<br>M-JPEG          | 1        | 1280x800       | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| M2014       | Refer to P1204(5.40.12)  | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| M3004       | 5.50.5.1   | H.264<br>M-JPEG          | 1        | 1280x800       | -     | -      | -    | *2             | *2   | Yes*                 |                     |
| M3005       | 5.40.5.3   | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | Yes                  |                     |
| M3006       | 5.40.13  | H.264<br>M-JPEG          | 1        | 2048x1536      | -     | -      | -    | Yes            | Yes  | Yes                  |                     |
| M3007       | 5.55.1.1   | H.264<br>M-JPEG          | 1        | 2592x1944      | -     | -      | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | Fisheye camera with manual calibration in Crystal                  |                          |          |                |       |        |      |                |      |                      |                     |
| M3011       | 5.01   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| M3014       |  | H.264<br>M-JPEG          | 1        | 1280x800       | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| M3024-L     | 5.40.5   | H.264<br>M-JPEG          | 1        | 1280x800       | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| M3025       | 5.50.5.1   | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | -    | *2             | *2   | Yes*                 |                     |
| M3026       | Refer to M3024-L(5.50.5)   | H.264<br>M-JPEG          | 1        | 2048x1536      | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| M3027       | refer to M3007(5.55.1.1)   | H.264 M-JPEG       | 1        | 2592x1944      | -     | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | Fisheye camera   |                    |          |                |       |        |      |                |      |                      |                     |
| M3037       | 5.75.1   | H.264 MJPEG        | 1        | 2592x1944      | 1-way | -      | -    | -              | *2   | Yes*                 |                     |
| Note:       | 1.Frame rate can not achieve to max fps. [Camera performance limitation]<br>2. Can not connect at Panorama Corner left, Panorama Corner right, Double Panorama Corner Modes. [Camera firmware issue] |                    |          |                |       |        |      |                |      |                      |                     |
| M3113-R     |  | H.264 M-JPEG       | 1        | 800x600        | -     | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| M3113-VE    |  | H.264 M-JPEG       | 1        | 800x600        | -     | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| M3114-R     | 5.11   | H.264 M-JPEG       | 1        | 1280x800       | -     | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| M3114-VE    |  | H.264 M-JPEG       | 1        | 1280x800       | -     | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| M3203       |  | H.264 M-JPEG       | 1        | 800x600        | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | M3203-V is compatible with M3203   |                    |          |                |       |        |      |                |      |                      |                     |
| M3204       |  | H.264 M-JPEG       | 1        | 1280x800       | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | M3204-V is compatible with M3204   |                    |          |                |       |        |      |                |      |                      |                     |
| M5013       |  | H.264 M-JPEG       | 1        | 800x600        | 1-way | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| M5014       |  | H.264 MPEG4        | 1        | 1280x720       | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| M7001       |  | H.264 M-JPEG       | 1        | 720x576        | -     | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| M7010       | 5.40.6.1   | H.264 M-JPEG       | 4        | 720x576        | -     | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| M7014       | 5.40.7.1   | H.264 M-JPEG       | 4        | 720x576        | -     | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| P1204       | 5.40.12  | H.264 M-JPEG       | 1        | 1280x720       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| P1214       | 5.40.12  | H.264 M-JPEG       | 1        | 1280x720       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| P1214-E     | 5.40.12  | H.264 M-JPEG       | 1        | 1280x720       | -     | *2     | -    | *2             | *2   | Yes*                 |                     |
| P1311       | 5.01   | H.264 MPEG4 M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| P1343       | 5.06   | H.264 M-JPEG | 1        | 800*600        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| P1343-E     |  | H.264 M-JPEG | 1        | 640x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P1344       |  | H.264 M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P1344-E     |  | H.264 M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P1346       | 5.06   | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| P1346-E     |  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P1347       | 5.11   | H.264 M-JPEG | 1        | 2560x1920      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                     |
| P1347-E     |  | H.264 M-JPEG | 1        | 2560x1920      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| P1353-E     | refer to P1354 (5.40.14)   | H.264 M-JPEG | 1        | 800x600        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| P1354       | 5.60.1   | H.264 M-JPEG | 1        | 1280x960       | 1-way | 1/1    | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | H264 AAC not support in Titan v1.5.1 and above version   |              |          |                |       |        |      |                |      |                      |                     |
| P1355-E     | refer to P1354 (5.40.14)   | H.264 M-JPEG | 1        | 800x600        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| P1357       | 5.40.19.1  | H.264 M-JPEG | 1        | 2592x1944      | *2    | *2     | *2   | Yes            | *2   | Yes                  |                     |
| P1405-LE    | 5.80.1   | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | Yes  | *2             | *2   | Yes*                 |                     |
| P1425-E     | Refer to P1425-LE(5.80.1)  | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | Yes  | *2             | *2   | Yes*                 | Supported by design |
| P1425-LE    | 5.80.1   | H.264 MJPEG  | 1        | 1920x1080      | -     | 1/1    | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | PTZ only support zoom & focus.   |              |          |                |       |        |      |                |      |                      |                     |
| P1427-E     | 5.80.1   | H.264 MJPEG  | 1        | 2592x1944      | -     | *2     | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | 1.Frame rate list does not sync with web. (Camera Firmware issue)<br>2.The connection is unstable, since camera connects via link. (Camera Firmware issue) |              |          |                |       |        |      |                |      |                      |                     |
| P1428-E     | 5.55.1   | H.264 M-JPEG | 1        | 3840x2160      | -     | *2     | Yes* | *2             | *2   | Yes*                 |                     |
| P3214-V     | 5.55.3.2   | H.264 MJPEG  | 1        | 1280x960       | -     | *2     | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | Zoom speed setting does not support.(Camera limitation)  |              |          |                |       |        |      |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| P3215-V     | 5.55.3.2   | H.264 MJPEG  | 1        | 1920x1080      | -     | *2     | Yes  | *2             | *2   | Yes*                 |                     |
| P3224       | Refer to P3224-LV (5.75.3.1)   | H.264 MJPEG  | 1        | 1280x960       | -     | -      | Yes  | *2             | *2   | Yes*                 | Supported by design |
| P3224-LV    | 5.75.3.1   | H.264 MJPEG  | 1        | 1280x960       | -     | -      | Yes  | *2             | *2   | Yes*                 |                     |
| P3225       | Refer to P3225-LVE (5.75.3.1)  | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | Yes  | *2             | *2   | Yes*                 | Supported by design |
| P3225-LVE   | 5.75.3.1   | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | Yes  | *2             | *2   | Yes*                 |                     |
| P3301       | 5.11   | H.264 M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| P3301-V     |  | H.264 M-JPEG | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| P3304       |  | H.264 M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P3304-V     |  | H.264 M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P3343       | 5.06   | H.264 M-JPEG | 1        | 800x600        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | P3343-V and P3343-VE are compatible with P3343<br>P3343 supports digital PTZ only. |              |          |                |       |        |      |                |      |                      |                     |
| P3344       | 5.06   | H.264 M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | P3344-V and P3344-VE are compatible with P3344<br>P3344 supports digital PTZ only. |              |          |                |       |        |      |                |      |                      |                     |
| P3346       | 5.20   | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes* | Yes            | Yes* | Yes                  |                     |
| Note:       | P3346-V and P3346-VE are compatible with P3346<br>P3346 supports digital PTZ only. |              |          |                |       |        |      |                |      |                      |                     |
| P3353       |  | H.264 M-JPEG | 1        | 800x600        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| P3354       | 5.40.10.2  | H.264 M-JPEG | 1        | 1280x960       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | tested by link      |
| P3363       | 5.40.17.1  | H.264 MJPEG  | 1        | 800x600        | *2    | *2     | *2   | *2             | *2   | Yes*                 | tested by link      |
| P3364       | 5.40.10.2  | H.264 M-JPEG | 1        | 1280x960       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | tested by link      |
| P3364-L     | 5.60.1.4   | H.264 MJPEG  | 1        | 1280x960       | 1-way | 1/1    | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | PTZ only support zoom & focus.   |              |          |                |       |        |      |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|---------|------|----------------|------|----------------------|---------------------|
| P3364-LV    | Refer to P3364-L(5.60.1.4)  | H.264 MJPEG  | 1        | 1280x960       | 1-way | 1/1     | Yes  | *2             | *2   | Yes*                 | Supported by design |
| P3365       | 5.55.3.2  | H.264 M-JPEG | 1        | 1920x1080      | *2    | 1/1     | Yes  | *2             | *2   | Yes*                 | tested by link      |
| P3365-V     | Refer to P3365(5.55.3.2)  | H.264 M-JPEG | 1        | 1920x1080      | *2    | 1/1     | Yes  | *2             | *2   | Yes*                 | Supported by design |
| P3365-VE    | Refer to P3365(5.55.3.2)  | H.264 M-JPEG | 1        | 1920x1080      | *2    | 1/1     | Yes  | *2             | *2   | Yes*                 | Supported by design |
| P3367       | 5.40.3  | H.264 M-JPEG | 1        | 2592x1944      | 1-way | 1/1     | -    | Yes            | Yes  | Yes                  | tested by link      |
| Note:       | P3367-V, P3367-VE are compatible with P3367   |              |          |                |       |         |      |                |      |                      |                     |
| P3384       | 5.40.19   | H.264 MJPEG  | 1        | 1280x960       | *2    | *2      | -    | *2             | *2   | Yes*                 | tested by link      |
| P3905       | 5.55.3  | H.264 MJPEG  | 1        | 1920x1080      | -     | -       | -    | Yes            | *2   | Yes*                 | tested by link      |
| P3905-R     | Refer to P3905(5.55.3)  | H.264 MJPEG  | 1        | 1920x1080      | -     | -       | -    | *2             | *2   | Yes*                 | Supported by design |
| P3905-RE    | Refer to P3905(5.55.3)  | H.264 MJPEG  | 1        | 1920x1080      | -     | -       | -    | *2             | *2   | Yes*                 | Supported by design |
| P3915       | 5.55.3  | H.264 MJPEG  | 1        | 1920x1080      | *2    | 1/1(*2) | -    | *2             | *2   | Yes*                 | tested by link      |
| P3915-R     | Refer to P3915(5.55.3)  | H.264 MJPEG  | 1        | 1920x1080      | *2    | 1/1(*2) | -    | *2             | *2   | Yes*                 | Supported by design |
| P5414       | 5.55.1  | H.264 M-JPEG | 1        | 1280x720       | 1-way | 4/4     | Yes  | Yes            | Yes  | Yes                  | tested by link      |
| P5415       | Refer to P5414(5.55.1)  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 4/4     | Yes  | Yes            | Yes  | Yes                  |                     |
| P5512       |   | H.264 M-JPEG | 1        | 704x480        | 1-way | 4/4     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5512-E     |   | H.264 M-JPEG | 1        | 704x480        | 1-way | 4/4     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5514       | 5.85.1  | H.264 M-JPEG | 1        | 1280x720       | *2    | 4/4     | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | 1.Bitrate list does not sync with web. (Camera Firmware issue)<br>2.Frame rate list does not sync with web. (Camera Firmware issue) |              |          |                |       |         |      |                |      |                      |                     |
| P5522       |   | H.264 M-JPEG | 1        | 720x480        | 1-way | 4/4     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5522-E     |   | H.264 M-JPEG | 1        | 720x480        | 1-way | 4/4     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5532       | 5.15  | H.264 M-JPEG | 1        | 720x480        | 1-way | 2/2     | Yes* | Yes            | Yes* | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|---------|------|----------------|------|----------------------|---------------------|
| P5532-E     |  | H.264 M-JPEG | 1        | 720x480        | 1-way | 2/2     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5534       | 5.15.1   | H.264 M-JPEG | 1        | 1280x720       | 1-way | 2/2     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5534-E     |  | H.264 M-JPEG | 1        | 1280x720       | 1-way | 2/2     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P5544       | 5.41.2.2   | H.264 M-JPEG | 1        | 1280x720       | *2    | *2      | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | P5544 is a two-len (fisheye and PTZ) camera  |              |          |                |       |         |      |                |      |                      |                     |
| P5624       | Refer to P5624-E(5.75.1)   | H.264 M-JPEG | 1        | 1280x720       | -     | -       | Yes* | *2             | *2   | Yes*                 | Supported by design |
| P5624-E     | 5.75.1   | H.264 M-JPEG | 1        | 1280x720       | -     | -       | Yes* | *2             | *2   | Yes*                 | tested by link      |
| P5635       | Refer to P5635-E(5.75.1)   | H.264 M-JPEG | 1        | 1920x1080      | *2    | 2       | Yes* | *2             | *2   | Yes*                 | Supported by design |
| P5635-E     | 5.75.1   | H.264 M-JPEG | 1        | 1920x1080      | *2    | 2/2(*2) | Yes* | *2             | *2   | Yes*                 | tested by link      |
| P7210       | 5.50.2   | H.264 M-JPEG | 20*      | 1536x1152      | 1-way | 16/16   | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | P7210 is 4IP x 5channels video server  |              |          |                |       |         |      |                |      |                      |                     |
| P7214       | Refer to P7210   | H.264 M-JPEG | 4        | 720x576        | 1-way | 4/4     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| P7224       | 5.40.7   | H.264 M-JPEG | 4        | 720x576        | 1-way | 4/4     | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | P7224 can't use second audio input. First audio only support G.711                                     |              |          |                |       |         |      |                |      |                      |                     |
| P8221       | 5.10.2   | *2           | 1        | -              | *2    | *2      | -    | -              | *2   | -                    |                     |
| Note:       | Network I/O audio module   |              |          |                |       |         |      |                |      |                      |                     |
| P8513       | Refer to P8514   | H.264 M-JPEG | 1        | 800x600        | -     | 0/0     | -    | Yes            | Yes  | Yes                  | Supported by design |
| P8514       | 5.21   | H.264 M-JPEG | 1        | 1280x800       | -     | 0/0     | -    | Yes            | Yes  | Yes                  |                     |
| Q1602       | 5.40.3   | H.264 M-JPEG | 1        | 768x576        | 1-way | 1/1     | -    | Yes            | Yes  | Yes                  | tested by link      |
| Note:       | P7210, P8514, Q1602 camera not testing Audio, I/O, UPNP capability<br>Q1602-E is compatible with Q1602 |              |          |                |       |         |      |                |      |                      |                     |
| Q1604       | 5.40.3.2   | H.264 M-JPEG | 1        | 1280x960       | 1-way | 1/1     | -    | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. Not support AAC when codec is MJPEG<br>2. Does not support H264 CBR mode                            |              |          |                |       |         |      |                |      |                      |                     |
| Q1614       | 5.55.1   | H.264 MJPEG  | 1        | 1280x960       | *2    | *2      | -    | *2             | *2   | Yes*                 | tested by link      |





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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|---------|------|----------------|------|----------------------|---------------------|
| Q1615       | 5.55.3   | H.264 MJPEG  | 1        | 1920x1200      | *2    | *2      | -    | *2             | *2   | Yes*                 | tested by link      |
| Note:       | Q1614 and Q1615: Max framerate show 60 regardless of Axis Capture mode.  |              |          |                |       |         |      |                |      |                      |                     |
| Q1635       | 5.80.1.2   | H.264 MJPEG  | 1        | 1920x1200      | *2    | *2(2/0) | Yes  | *2             | *2   | Yes*                 |                     |
| Note:       | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream1 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation) |              |          |                |       |         |      |                |      |                      |                     |
| Q1755       | 5.02   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1     | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | M-JPEG: Due to the HW constraints, the frame rate and audio will be impacted if resolution and quality are high.   |              |          |                |       |         |      |                |      |                      |                     |
| Q1755-E     |  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q1765-LE    | 5.55.1   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 2/2     | Yes* | Yes            | Yes  | Yes                  |                     |
| Q1910       | 5.06   | H.264 M-JPEG | 1        | 720x576        | 1-way | 1/1     | Yes* | Yes            | Yes  | Yes                  |                     |
| Q1910-E     |  | H.264 M-JPEG | 1        | 720x576        | 1-way | 1/1     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q1921       | 5.11   | H.264 M-JPEG | 1        | 768x576        | 1-way | 2/0     | -    | Yes            | Yes* | Yes                  |                     |
| Note:       | Q1921 camera not testing Audio, I/O, UPNP capability   |              |          |                |       |         |      |                |      |                      |                     |
| Q1921-E     |  | H.264 M-JPEG | 1        | 768x576        | 1-way | 2/0     | -    | Yes            | Yes  | Yes                  | Supported by design |
| Q1922       | Refer to Q1921   | H.264 M-JPEG | 1        | 800x600        | 1-way | 1/1     | -    | Yes            | Yes  | Yes                  | Supported by design |
| Q1931-E     | 5.55.1   | H.264 M-JPEG | 1        | 768X576        | 1-way | 2/2     | -    | Yes            | *2   | Yes                  |                     |
| Note:       | 1.Thermal camera<br>2.Up to 30 fps within EU, Norway, Switzerland, Canada, USA, Japan, Australia, New ZealandUp to 8.3 fps in other countriesa   |              |          |                |       |         |      |                |      |                      |                     |
| Q2901-E     | 5.55.4.1   | H.264 M-JPEG | 1        | 720x576        | *2    | -       | -    | *2             | *2   | Yes*                 |                     |
| Q3505       | 5.80.1   | H.264 M-JPEG | 1        | 1920x1200      | *2    | -       | Yes  | *2             | *2   | Yes*                 | tested by link      |
| Note:       | 1.PTZ only support zoom & focus.<br>2.Bitrate list range error.(Firmware Issue)<br>3.FPS cannot reach to 30 fps due to multi-connection of camera. (Camera Performance Issue)  |              |          |                |       |         |      |                |      |                      |                     |
| Q3505-V     | Refer to Q3505(5.80.1)   | H.264 M-JPEG | 1        | 1920x1200      | *2    | -       | Yes  | *2             | *2   | Yes*                 | Supported by design |
| Q6000       | Refer to Q6000-E(5.65.1)   | H.264 M-JPEG | 5        | 1920x1440      | -     | -       | -    | *2             | *2   | Yes*                 | Supported by design |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
 Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware | Video Format | Video Ch | Max Resolution             | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--|-----------------|--------------|----------|----------------------------|-------|--------|------|----------------|------|----------------------|---------------------|
| Q6000-E  | 5.65.1          | H.264 M-JPEG | 5        | 1920x1440                  | -     | -      | -    | *2             | *2   | Yes*                 | tested by link      |
| Note: 1.The range of 5th's frame rate is different from that on camera web. (Camera firmware issue). |                 |              |          |                            |       |        |      |                |      |                      |                     |
| Q6032  |                 | H.264 M-JPEG | 1        | 752x480                    | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q6032-E  | 5.05            | H.264 M-JPEG | 1        | 704x576                    | -     | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| Q6034  | 5.20.3          | H.264 M-JPEG | 1        | 1280x720                   | 1-way | 2/2    | Yes* | Yes            | Yes* | Yes                  |                     |
| Q6034-E  |                 | H.264 M-JPEG | 1        | 1280x720                   | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q6035  |                 | H.264 M-JPEG | 1        | 1920x1080                  | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q6035-E  |                 | H.264 M-JPEG | 1        | 1920x1080                  | 1-way | -      | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q6042  | 5.55.1          | H.264 M-JPEG | 1        | 752x480                    | 1-way | 4/4    | Yes* | Yes            | *2   | Yes                  |                     |
| Q6044  | 5.55.1          | H.264 M-JPEG | 1        | 1920x1080                  | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q6044-E  | 5.70.1.1        | H.264 MJPEG  | 1        | 1280x720                   | -     | -      | Yes  | *2             | *2   | Yes*                 | Supported by design |
| Q6045  | 5.55.1          | H.264 M-JPEG | 1        | 1920x1080                  | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  | Tested by link      |
| Q6045-E  | 5.70.1.1        | H.264 M-JPEG | 1        | 1920x1080                  | -     | -      | Yes* | *2             | *2   | Yes*                 |                     |
| Note: 1. PTZ speed does not sync with web. (Camera Firmware issue)                                   |                 |              |          |                            |       |        |      |                |      |                      |                     |
| Q6115-E  | 5.65.2          | H.264 MJPEG  | 1        | 1920x1080                  | -     | -      | Yes* | *2             | *2   | Yes*                 |                     |
| Q7401  |                 | H.264 M-JPEG | 1        | 704x576                    | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Q7404  | 5.02            | H.264 M-JPEG | 4        | 768x576                    | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Q7406  | 5.11.1          | H.264 M-JPEG | 6        | 704x576                    | -     | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Q7411  | 5.40.13.1       | H.264 M-JPEG | 1        | 720x576                    | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  |                     |
| Q7414  | 5.25            | H.264 M-JPEG | 4        | 720x576(PAL)<br>720x480(N) | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | tested by link      |
| Q7424-R  | 5.40.10         | H.264 M-JPEG | 4        | 720x576                    | 1-way | 4/4    | Yes* | Yes            | Yes  | Yes                  |                     |



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\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/A2A2100kbps  
Yes\*: multi stream setting support

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|--|----------------|----------|----------------|-------|---------|-----|----------------|------|----------------------|---------|
| V5915       | 5.75.1   | H.264<br>MJPEG | 1        | 1920x1080      | *2    | *2(4/4) | Yes | -              | *2   | Yes*                 |         |
| Note:       | 1. Camera cannot achieve maximum FPS with high resolution and bitrate. (Camera performance limitation)<br>2. Framerate list can not sync with web. (Camera Firmware issue) |                |          |                |       |         |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name           | Tested Firmware                   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|-----------------------|-----------------------------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| <b>BIP-640c</b>       |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-640c-dn</b>    |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-1000c</b>      |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 1024x768       | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-1000c-dn</b>   |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 1024x768       | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-1300c</b>      |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-1300c-dn</b>   | BIP-1300c-dn-1.6-2                | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | -     | 1/1    | -   | Yes            | -    | -                    |                        |
| Note:                 | On-Edge Motion: H.264 and M-JPEG. |                          |          |                |       |        |     |                |      |                      |                        |
| <b>BIP-1600c</b>      |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-1600c-dn</b>   |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-D1000c-dn</b>  |                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 1024x768       | -     | 1/1    | -   | -              | -    | -                    | Tested by manufacturer |
| <b>BIP-D1300c-dn</b>  | BIP-D1300c-dn-1.6-1               | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | -     | 1/1    | -   | Yes            | -    | -                    |                        |
| Note:                 | On-Edge Motion: H.264 and M-JPEG. |                          |          |                |       |        |     |                |      |                      |                        |
| <b>BIP2-D1920c-DN</b> | 3.8.0                             | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | -     | 1/1    | -   | Yes            | Yes  | Yes                  |                        |
| Note:                 | Not support Audio                 |                          |          |                |       |        |     |                |      |                      |                        |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name       | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>NBC-225-P</b>  | refer to NDC-225 (FW: 39500570)   | H.264        | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBC-255-P</b>  | refer to NDC-225 (FW: 39500570)   | H.264        | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBC-265-P</b>  | refer to NTC-265-PI (FW: 39500570)  | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBC-274-P</b>  | refer to NTC-265-PI (FW: 15500552)  | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBC-274-PM</b> | refer to NTC-265-PI (FW: 15500552)  | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBC-274-PT</b> | refer to NTC-265-PI (FW: 15500552)  | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBC-455</b>    | 5.72.0028(28500572)   | H.264        | 1        | 704x576        | *2    | *2     | -   | *2             | *2   | Yes                  |                     |
| Note:             | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP) i. (NUUO Server limitation)<br>2. Only support G.711 audio codec. i. (Camera performance limitation)<br>3. Can't set tream3 quality value. i. (Camera firmware issue) |              |          |                |       |        |     |                |      |                      |                     |
| <b>NBN-498</b>    | 5.72.0028(28500572)   | H.264        | 1        | 704x576        | *2    | *2     | -   | *2             | *2   | Yes                  |                     |
| Note:             | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP) i. (NUUO Server limitation)<br>2. Only support G.711 audio codec. i. (Camera performance limitation)<br>3. Can't set tream3 quality value. i. (Camera firmware issue) |              |          |                |       |        |     |                |      |                      |                     |
| <b>NBN-733</b>    | refer to NIN-733(5.90.0112)   | H.264        | 1        | 1280x720       | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBN-832</b>    | refer to NDN-832(5.90.0112)   | H.264        | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBN-40012</b>  | refer to NTI-40012(5.90.0126(26510590))   | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NBN-50022</b>  | refer to NTI-50022(5.90.0126(26510590))   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |

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- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name        | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------------|---|--------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| <b>NBN-71013-B</b> | 5.92.0090(90500592)   | H.264        | 1        | 1280x720       | 1-way | 2/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:              | 1. FPS can not achieve setting value. (Camera performance limitation)   |              |          |                |       |        |      |                |      |                      |                     |
| <b>NDC-225</b>     | 39500570  | H.264        | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:              | When H264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.<br>Audio Codec support g711, not support L1, AAC.   |              |          |                |       |        |      |                |      |                      |                     |
| <b>NDC-255-P</b>   | refer to NDC-225 (FW: 39500570)   | H.264        | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDC-225-PI</b>  | refer to NDC-225 (FW: 39500570)   | H.264        | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDC-265-P</b>   | refer to NDC-265-PI (FW: 39500570)  | H.264        | 1        | 1280x720       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDC-274-P</b>   | 15500552  | H.264        | 1        | 1920x1080      | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| Note:              | When H.264 quality is set to "0", the camera will Auto-adjust the quality setting. For minimum quality, the value should be "1".<br>Audio Codec support g711, not support L1, AAC.  |              |          |                |       |        |      |                |      |                      |                     |
| <b>NDC-274-PT</b>  | refer to NDC-274-P  | H.264        | 1        | 1920x1080      | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| <b>NDC-455</b>     | refer to NBC-455(5.72.0028)   | H.264        | 1        | 704x576        | 1-way | 2/1    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| <b>NDN-498</b>     | refer to NBN-498(5.72.0028)   | H.264        | 1        | 704x576        | 1-way | 2/1    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| <b>NDN-733</b>     | refer to NIN-733(5.90.0112)   | H.264        | 1        | 1280x720       | 1-way | 2/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDN-832</b>     | 5.90.0112   | H.264        | 1        | 1920x1080      | 1-way | 2/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:              | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP)<br>2. Only support G.711 audio codec.<br>3. Changing resolution from 1920x1080 and 1280x720 to lower resolution need to set by web property to "H.264 MP SD". |              |          |                |       |        |      |                |      |                      |                     |

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Invented for life

- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name        | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>NDN-40012</b>   | refer to NTI-40012(5.9 0.0126 (26510590))  | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDN-50022</b>   | refer to NTI-50022(5.9 0.0126 (26510590))  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDI-50022</b>   | refer to NTI-50022(5.9 0.0126 (26510590))  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NIN-733</b>     | 5.90.0112  | H.264        | 1        | 1280x720       | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:              | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP)<br>2. Only support G.711 audio codec.<br>3. Can't set framerate 1 under base frame rate 50/60 ips mode. (Camera firmware issue)                            |              |          |                |       |        |     |                |      |                      |                     |
| <b>NIN-832</b>     | refer to NDN-832(5.90.0112)  | H.264        | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NIN-40012</b>   | refer to NTI-40012(5.9 0.0126 (26510590))  | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NTC-255-PI</b>  | refer to NDC-225 (FW: 39500570)  | H.264        | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NTC-265-PI</b>  | refer to NDN-265-PIO (FW 39500570)   | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDN-265-PIO</b> | 39500570   | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:              | It can't set resolution below 1280x720 when stream2 property set to "Copy Stream 1".<br>When H.264 quality is set to "0", the camera will Auto-adjust the quality setting. For minimum quality, the value should be "100"<br>Audio AAC can't work due to NUUO platform issues. |              |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| NTI-40012   | 5.90.0126  | H.264        | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP)i. (NUUO Server limitation)<br>2. Only support G.711 audio codec.i. (Camera performance limitation)<br>3. After changing MJPEG resolution on web and getting camera setting on NUUO, resolution will return to previous setting.i. (Camera firmware issue)<br>4. Snapshot resolution is not correspond to existing profile. (Camera firmware issue)   |              |          |                |       |        |     |                |      |                      |                     |
| NTI-50022   | 5.90.0126  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP)i. (NUUO Server limitation)<br>2. Only support G.711 audio codec.i. (Camera performance limitation)<br>3. After changing MJPEG resolution on web and getting camera setting on NUUO, resolution will return to previous setting.i. (Camera firmware issue)<br>4. Snapshot resolution is not correspond to existing profile. (Camera firmware issue)   |              |          |                |       |        |     |                |      |                      |                     |
| NUC-50022   | refer to NTI-50022(5.90.0126(26510590))  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| NUC-51022   | refer to NTI-50022(5.90.0126(26510590))  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| NWC-455     | 56500410   | H.264 M-JPEG | 1        | 704x576        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| Note:       | Auto detect model unsupported.<br>H264 supports up to a maximum of 2CIF as this utilizes the Baseline Profile.<br>When H264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '100'.<br>When MJPEG quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.<br>MJPEG frame rate depends on camera load. Value in settings dialog is not representative of actual frame rate.   |              |          |                |       |        |     |                |      |                      |                     |
| NWC-495     | 56500410   | H.264 M-JPEG | 1        | 704x576        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| Note:       | Cannot auto detect model.<br>H264 supports up to a maximum of 2CIF as this utilizes the Baseline Profile.<br>When H264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '100'.<br>When MJPEG quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.<br>Firmware Issue: MJPEG framerate on settings dialog is incorrect. The value is always 25.<br>MJPEG unstable issue. Frame rate of MJPEG stream is dependent on the camera load and can vary. |              |          |                |       |        |     |                |      |                      |                     |



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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name           | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------------|--|-----------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| <b>NWD-455</b>        | 56500410   | H.264<br>M-JPEG | 1        | 704x576        | -     | -      | -    | Yes            | -    | Yes                  | Supported by design |
| Note:                 | Cannot auto detect model.<br>H264 supports up to a maximum of 2CIF as this utilizes the Baseline Profile.<br>When H264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '100'.<br>When MJPEG quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.<br>Firmware Issue: MJPEG framerate on settings dialog is incorrect.<br>Firmware Issue: Framerate of MJPEG stream is unstable.   |                 |          |                |       |        |      |                |      |                      |                     |
| <b>NWD-495</b>        | 56500410   | H.264<br>M-JPEG | 1        | 704x576        | -     | -      | -    | Yes            | -    |                      |                     |
| Note:                 | Cannot auto detect model.<br>H264 supports up to a maximum of 2CIF as this utilizes the Baseline Profile.<br>When H264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '100'.<br>When MJPEG quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.<br>Firmware Issue: MJPEG framerate on settings dialog is incorrect. The value is always 25.<br>MJPEG unstable issue. Frame rate of MJPEG stream is dependent on the camera load and can vary.   |                 |          |                |       |        |      |                |      |                      |                     |
| <b>VIP-X1XF-E</b>     | 39500570   | H.264           | 1        | 704x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:                 | When H264 quality is set to '0', the camera will auto-adjust the quality setting. For minimum quality, the value should be '1'.<br>Audio Codec support g711, not support L1, AAC.  |                 |          |                |       |        |      |                |      |                      |                     |
| <b>Generic</b>        | 5.90.0112<br>(12510590)  | H.264           | 1        | 1920x1080      | 1-way | 2/2    | *2   | Yes            | Yes  | Yes*                 |                     |
| Note:                 | 1. H.264 only support IP mode of GOP structure. (Camera→Encoder Profile→Profile N→Expert Settings→GOP structure→IP) (NUUO Server limitation)<br>2. Only support G.711 audio codec. (Camera performance limitation)<br>3. After changing MJPEG resolution on web and getting camera setting on NUUO, resolution will return to previous setting. (Camera firmware issue)<br>4. Snapshot resolution is not correspond to existing profile. (Camera firmware issue)<br>5. Sometimes set multi-stream fail due to limitations of inter-streaming dependency.(NUUO Server limitation)<br>6. Can't set tream3 quality value. (Camera firmware issue)<br>7. Some resolution can't set framerate (NIN-733 Stream2 only support fps 7.5 under 1280x720 )(Camera performance limitation)<br>8. MJPEG framerate can't synchronize to web setting. (Camera performance limitation)<br>9. Can't set framerate 1 under base frame rate 50/60 ips mode. (Camera performance limitation)<br>10. NUUO not test ptz functions. |                 |          |                |       |        |      |                |      |                      |                     |
| <b>VG5-7028-C1PC4</b> | Refer to VG5-7130-CPT4 (6.11.0021)   | H.264           | 1        | 1280x720       | 1-way | 2/1    | Yes* | Yes            | -    | Yes*                 | Supported by design |

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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|---|--------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| VG5-7130-EPC4 | Refer to VG5-7130-CPT4 (6.11.0021)  | H.264        | 1        | 1280x720       | 1-way | 2/1    | Yes* | Yes            | -    | Yes*                 | Supported by design |
| VG5-7130-CPT4 | 6.11.0021   | H.264        | 1        | 1280x720       | 1-way | 2/1    | Yes* | Yes            | -    | Yes*                 |                     |
| Note:         | 1. Talk can't be used. (Camera Firmware issue)<br>2..The motion event we got only support when VCA of camera webpage has been open. (Camera Firmware issue)<br>3.Digital Output can be trigger by onvif command, but the status won't changed on hardware device. (Camera Firmware issue)<br>4.There are same resolution in resolution list of Low & Min. (Camera Firmware issue) |              |          |                |       |        |      |                |      |                      |                     |



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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name          | Tested Firmware  | Video Format        | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|----------------------|--|---------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|------------------------|
| <b>OSD-200A 20xp</b> | gk20140422 NSA   | H.264, MJPEG        | 1        | 1920x1080      | *2    | *2     | Yes* | Yes            | *2   | Yes*                 |                        |
| Note:                | 1. Snapshot supported when one of stream choose MJPEG. (Camera firmware issue)<br>2. Error preset point. (Camera firmware issue)   |                     |          |                |       |        |      |                |      |                      |                        |
| <b>30xN</b>          | v3.2.2.8   | H.264, MJPEG, MPEG4 | 1        | 2048x1536      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                        |
| Note:                | Fisheye camera with manual calibration in Crystal<br>1. Cover model:<br>MD-300Np, FB-300Np, WFB-300Np, FD-302Np, VD-302Np, OB-302Np, OB-302Ne, WOB-302Ne, FB-200Np, OB-202Np, VD-202Np.<br>VD-300Np, FD-300Np, OB-300Np, WOB-300Np, GOB-300Np with zoom feature.<br>OB-300Np-AD, OB-200Np, VD-200Np with zoom and focus feature.<br>MD-300Np-360 is fisheye camera<br>2. MD-300Np and MD-300Np-360 are no support DI/DO and one way audio only.<br>3. MD-300Np-360 not support MD when format is MJPEG and MPEG4.<br>4.The RTSP stream has been disconnected in 5 minutes when the protocol is use under HTTP.<br>5.The Zoom , Focus or Auto Focus function has no response via camera web or CGI command.<br>6.The Motion Detection always triggered when the frame rate is 1.<br>7.The Crystal does show error when setup camera parameter to higher resolution.   |                     |          |                |       |        |      |                |      |                      |                        |
| <b>130N</b>          | v3.1.0.9   | H.264 MPEG4 M-JPEG  | 1        | 1280x1024      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                        |
| Note:                | OB-130Np, WOB-130Np, GOB-130Np, FD-130Np, VD-130Np. FB-130Np, WFB-130Np compare them with OB-130Np difference is w/o zoom control<br>Smart Zoom/Focus will spent 15s every time  |                     |          |                |       |        |      |                |      |                      |                        |
| <b>50xA</b>          | V3.2.2.8   | H.264 MPEG4 M-JPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                        |
| Note:                | 1. Covered model:FB-500Ap, FD-301Af, WFB-500Ap, CB-500Ap, WCB-500Ap, CB-502Ap, WCB-502Ap, FD-500Ap, FD-502Ap , VD-301Af, VD-500Ap, VD-502Ap , OB-500Af, MB-500Ap, WMB-500Ap, MD-500Ap-360, FD-301Af, VD-301Af, OB-200Ap, FB-200Ap, OB-202Ap, VD-202Ap.<br>OB-200Ap and VD-200Ap with zoom and focus function.<br>2. switch video resolution higher than 1920x1080 need waiting a period of time to reconnect stream<br>3. MD-500Ap-360 is no support DI/DO and one way audio only.<br>4. MD-500Ap-360 not support MD when format is MJPEG and MPEG4.<br>5. Support fisheye camera.<br>6.Max framerate can't sync with Wide and Ultra-Wide mode on camera web.<br>7.The RTSP stream has been disconnected in 5 minutes when the protocol is use under HTTP.<br>8.The image is broken when the format is MJPEG and resolution is 2592x1944 or 2304x1728.<br>9.The Zoom or Focus function has on response via camera web or CGI command.<br>10.The Crystal does show error when setup camera parameter to higher resolution.<br>11.[Crystal Only]The image of OB-200Ap sometimes cannot be updated under the protocol of TCP. |                     |          |                |       |        |      |                |      |                      |                        |
| <b>CB-100Ae</b>      | v3.0.2.4   | MPEG4 M-JPEG        | 1        | 1280x800       | 1-way | -      | -    | -              | Yes  | Yes                  | Tested by manufacturer |
| <b>CB-100A</b>       | v3.0.2.4   | H.264 MPEG4 M-JPEG  | 1        | 1280x800       | 1-way | -      | -    | -              | Yes  | Yes                  | Tested by manufacturer |
| <b>FB-100Ae</b>      | v3.0.2.3   | MPEG4 M-JPEG        | 1        | 1280x800       | 1-way | 1/0    | -    | -              | Yes  | Yes                  | Tested by manufacturer |
| <b>FB-100A</b>       | v3.0.2.3   | H.264 MPEG4 M-JPEG  | 1        | 1280x800       | 1-way | 1/0    | -    | -              | Yes  | Yes                  | Tested by manufacturer |

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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| FD-100Ae    | v3.0.2.3   | MPEG4<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/0    | -   | -              | Yes  | Yes                  | Tested by manufacturer |
| FD-100A     | v2.3.7.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/0    | -   | -              | Yes  | Yes                  |                        |
| FD-130Ae    | Refer to VD-130Ap  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| FD-130Ap    | Refer to VD-130Ap  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| Hydracam    | v3.2.3.4   | H.264                    | 3        | 1280x720       | 1-way | 2/2    | -   | -              | Yes  | Yes                  |                        |
| Note:       | 1. Audio function is not supported.<br>2. Resolution and bitrate list is not synchronized with the camera webpage.<br>3. The video does not play smoothly when the frame rate set to 1.            |                          |          |                |       |        |     |                |      |                      |                        |
| OB-100A     | v3.1.0.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                        |
| OB-E200Nf   | v3.7.0.18.3u   | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 |                        |
| VD-130Ae    | Refer to VD-130Ap  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| VD-130Ap    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                        |
| VS-04A v2   | 3.5.2.15   | H.264<br>MJPEG           | 4        | 720x576        | 1-way | 4/4    | Yes | Yes            | Yes  | Yes                  |                        |
| Note:       | PTZ isn't work<br>Audio isn't work<br>The list of resolution and bitrate aren't synchronized with the camera's web   |                          |          |                |       |        |     |                |      |                      |                        |
| W/VS-01A    | v3.1.0.6   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                        |
| WCB-100Ae   | v3.0.2.4   | MPEG4<br>M-JPEG          | 1        | 1280x800       | 1-way | -      | -   | -              | Yes  | Yes                  | Tested by manufacturer |
| WCB-100A    | v2.3.7.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | -              | Yes  | Yes                  |                        |
| WFB-100Ae   | v3.0.2.3   | MPEG4<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/0    | -   | -              | Yes  | Yes                  | Tested by manufacturer |
| WFB-100A    | v2.3.7.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/0    | -   | -              | Yes  | Yes                  |                        |
| Note:       | On-edge motion is only workable when stream 1 is MPEG4 with the bitrate under 1.5Mbps or quality under 3. We don't promise the performance of MD if the configuration isn't within the limitation. |                          |          |                |       |        |     |                |      |                      |                        |
| OSD/PZ-040D | v3.1.0.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                        |
| OSD/PZ-040E | v3.1.0.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                        |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-----------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| <b>VB-S30D</b>  | Ver. 1.1.0   | MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | Yes                | Yes*                 |                     |
| Note:           | 1.The video parameters of the camera are not configurable with IP+.                    |              |          |                |       |        |     |                |      |                    |                      |                     |
| <b>VB-S31D</b>  | Refer to VB-S30D(Ver. 1.1.0)   | MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | *2  | Yes            | -    | Yes                | Yes*                 | Supported by design |
| <b>VB-S800D</b> | Ver. 1.1.0   | MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:           | 1.The range of video parameters are difference between camera web and onvif responded. |              |          |                |       |        |     |                |      |                    |                      |                     |
| <b>VB-S900F</b> | Refer to VB-S800D(Ver. 1.1.0)  | MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |
| <b>VB-S905F</b> | Ver. 1.0.0   | MJPEG        | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:           | 1.The range of video parameters are difference between camera web and onvif responded. |              |          |                |       |        |     |                |      |                    |                      |                     |
| <b>VB-S805D</b> | Refer to VB-S905F(Ver. 1.0.0)  | MJPEG        | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware   | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|--------------|---|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| DCS30HDIR30  | v1.8.0601.10<br>01.93.0.65.1.0  | H.264<br>MJPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | Yes*                 |         |
| Note:        | 1.The bitrate type will be VBR under H.264 after set camera parameter. (Camera Firmware issue)<br>2.The Max bitrate was wrong under H.264.(Camera Firmware issue)<br>3.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>4.Motion detection is not supported on MJPEG. (Camera Firmware issue) |                |          |                |       |        |     |                |      |                      |         |
| DCS20HDIRE3V | v1.8.0801.10<br>01.93.0.66.1.0  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | Yes*                 |         |
| Note:        | 1.The bitrate type will be VBR under H.264 after set camera parameter. (Camera Firmware issue)<br>2.The Max bitrate was wrong under H.264.(Camera Firmware issue)<br>3.The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>4.Motion detection is not supported on MJPEG. (Camera Firmware issue) |                |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

For PTZ:  
 Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|----------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| <b>B13H</b>    | v1.1.0.0  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| <b>C10</b>     | refer to C10-W  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| <b>C10-W</b>   | v1.1.0.0(build2)  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| <b>D13HD</b>   | v1.1.0.0  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| <b>Generic</b> | cx20141008<br>NSA   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes* | Yes            | -    | Yes*                 | Supported by design |
| Note:          | 1. It can't stop pan & tilt sometimes. (Camera performance limitation)<br>2.It can't set zoom speed. (Camera Firmware issue)<br>3.It should set one stream in MJPEG, the snapshot will work. (Camera Firmware issue)<br>4.If set preset point too fast, it will set wrong point. (Camera performance limitation)<br>5.The resolution setting doesn't sync with web. (Camera Firmware issue) |                          |          |                |       |        |      |                |      |                      |                     |
| <b>W13H</b>    | v1.1.0.0(build2)  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| BL3102      | 03_C002   | H.264<br>MJPEG          | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)   |                         |          |                |       |        |     |                |      |                      |                     |
| DM3102      | 03_C002   | H.264<br>MJPEG          | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)   |                         |          |                |       |        |     |                |      |                      |                     |
| DM3112      | 02  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Framerate is unable to achieve to 30fps in 1920x1080. (Camera performance limitation)  |                         |          |                |       |        |     |                |      |                      |                     |
| BL5105      | 01_C020   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Camera web does not have WDR setting. (Camera Firmware issue)<br>2. Quality list can not sync with web. (Camera Firmware issue)  |                         |          |                |       |        |     |                |      |                      |                     |
| BL5302      | 02  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Framerate is unable to achieve to setting value in 1920x1080. (Camera performance limitation)  |                         |          |                |       |        |     |                |      |                      |                     |
| DM5302      | 02_C022   | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Audio has noise with AMR. (Camera Firmware issue)<br>2. Camera with highest resolution is unable to achieve maximum FPS. (Camera performance limitation)<br>3. PTZ only support zoom & focus.                                      |                         |          |                |       |        |     |                |      |                      |                     |
| BL7302      | 01_C013   | H.264<br>H.265<br>MJPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. H.265 starts from Crystal 3.2.<br>2. Audio has noise with AMR. (Camera Firmware issue)<br>3. Camera is unable to achieve maximum FPS. (Camera performance limitation)<br>4. Move can't not move to center. (Camera Firmware issue) |                         |          |                |       |        |     |                |      |                      |                     |
| BL7305      | 01_C013   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.   |                         |          |                |       |        |     |                |      |                      |                     |
| DM5113      | Refer to<br>Zavio<br>D4320(01_C<br>014)   | H.264<br>H.265<br>MJPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.   |                         |          |                |       |        |     |                |      |                      |                     |
| DM5115      | 01_C017   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |





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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support  
 For PTZ:  
 Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DM7302      | 01_C013   | H.264<br>H.265<br>MJPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. H.265 starts from Crystal 3.2.<br>2. Audio has noise. (Camera Firmware issue)<br>3. G.726 does not supported. (NUUO server limitation)   |                         |          |                |       |        |     |                |      |                      |                     |
| DM7305      | 01_C010   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.   |                         |          |                |       |        |     |                |      |                      |                     |
| BL5103      | 01_C018   | H.264<br>H.265<br>MJPEG | 1        | 2048x1536      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)<br>2. Quality list can not sync with web. (Camera Firmware issue)<br>3. Bitrate list can not sync with web in MJPEG. (Camera Firmware issue) |                         |          |                |       |        |     |                |      |                      |                     |
| DM5103      | 01_C013   | H.264<br>H.265<br>MJPEG | 1        | 2304*1296      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)<br>2. Quality list can not sync with web. (Camera Firmware issue)<br>3. Bitrate list can not sync with web in MJPEG. (Camera Firmware issue) |                         |          |                |       |        |     |                |      |                      |                     |
| FE5403      | Refer to Zavio P4320 (01_C013)  | H.264<br>H.265<br>MJPEG | 1        | 2048x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.   |                         |          |                |       |        |     |                |      |                      |                     |
| FE5405      | Refer to Zavio P4520(01_C013)   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.   |                         |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name           | Tested Firmware                                  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>CIVS-IPC-2500</b>  | V1.1.3R15  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | -              | Yes  | -                    |                     |
| <b>CIVS-IPC-2500W</b> | V1.1.3R03  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | -              | Yes  | -                    |                     |
| <b>PVC-300</b>        | 1.0.0  | MPEG4 M-JPEG | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note:                 | PTZ is only supported by external RS-485 device. |              |          |                |       |        |     |                |      |                      |                     |



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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| IBE3815NVR  |   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | -      | Yes | -              | Yes  | -                  | Yes                  | Supported by design |
| IBE3815PVR  |   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | -      | Yes | -              | Yes  | -                  | Yes                  | Supported by design |
| IBE5810NCR  |   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | -      | Yes | -              | Yes  | -                  | Yes                  | Supported by design |
| IBE5810PCR  |   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | -      | Yes | -              | Yes  | -                  | Yes                  | Supported by design |
| IBP5030CR   | XNET.A1-<br>2.01.13.02<br>04  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | In the MJPEG format, the fps is not enough when resolution is XGA or SXGA.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IDC4000T    | XNET.T1-<br>1.0.13.042<br>4   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | IDC4000T:<br>1. When setting Video MPEG with CBR in 4000 bitrate on camera web, the CGI will return incorrect video bitrate. It causes software show incorrect item "1M".<br>2. When trigger DI, DO will be triggered simultaneously.<br>3. 2nd stream format is MPEG4. |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IDC4050F    | XNET.M1-<br>3.00.13.02<br>04  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IDC4050IR   | XNET.M1-<br>3.00.13.02<br>04  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IDC4050VF   | XNET.M1-<br>3.00.13.11<br>25  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IDC4050VR   | Refer to<br>IDC4050V<br>F   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IDP4000VD   | XNET.A1-<br>1.1.9.1104  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                  | Yes                  |                     |
| IDP4000VR   | XNET.A1-<br>1.1.9.1104  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                  | Yes                  |                     |
| IDP4030VR   | XNET.A1-<br>2.01.13.02<br>04  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | In the MJPEG format, the fps is not enough when resolution is XGA or SXGA.  |                          |          |                |       |        |     |                |      |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name      | Tested Firmware  | Video Format             | Video Ch | Max Resolution           | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|------------------|--|--------------------------|----------|--------------------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| <b>IDP5035VR</b> | XNET.M2-3.00.13.0204   | H.264                    | 1        | 1280x1024                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:            | Firmware issue, failed to set bitrate as 128k over VGA/D1.   |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IGC2050F</b>  | XNET.M1-3.00.13.0204   | H.264<br>M-JPEG          | 1        | 1920x1080                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:            | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6. |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IGP1000</b>   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480                  | 1-way | -      | Yes | -              | Yes  | -                  | -                    | Supported by design |
| <b>IGP1030</b>   | XNET.A1-2.01.13.0204   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960                 | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:            | In the MJPEG format, the fps is not enough when resolution is XGA or SXGA.   |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IGP2035F</b>  | XNET.M2-3.00.13.0204   | H.264                    | 1        | 1280x1024                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:            | Firmware issue, failed to set bitrate as 128k over VGA/D1.   |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IJB2000</b>   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576                  | 1-way | -      | Yes | -              | Yes  | -                  | -                    | Supported by design |
| <b>INS2000</b>   | XNET.A1-2.01.13.0902   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576                  | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:            | 1. Could not reach up to maximum FPS<br>2. Audio choppy with G.711   |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IPM3063N</b>  |  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480                  | 1-way | -      | Yes |                | Yes  | -                  | -                    | Supported by design |
| <b>IPM3063P</b>  |  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576                  | 1-way | -      | Yes | -              | Yes  | -                  | -                    | Supported by design |
| <b>IS1765x</b>   | Refer to ISMC1063x   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480(N)<br>704x576(P) | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| <b>ISMC1063N</b> |  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480                  | 1-way | -      | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| <b>ISMC1063x</b> | XNET.A1-2.01.13.0204   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480(N)<br>704x576(P) | 1-way | 4/0    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:            | ISMC1063x includes ISMC1063P and ISMC1063N<br>1. Not support Audio codec G.726 when using TCP connection.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>ISS2765NW</b> |  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480                  | 1-way | -      | Yes | -              | Yes  | -                  | -                    | Supported by design |
| <b>ISS2765PW</b> |  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576                  | 1-way | -      | Yes | -              | Yes  | -                  | -                    | Supported by design |
| <b>ISS2965x</b>  | Refer to ISMC1063x   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480(N)<br>704x576(P) | 1-way | 4/0    | Yes | Yes            | Yes  | -                  | -                    | Supported by design |



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 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name        | Tested Firmware   | Video Format             | Video Ch | Max Resolution           | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|--------------------|---|--------------------------|----------|--------------------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| <b>ISS4032Z28W</b> | XNET.M2-3.00.13.0204  | H.264                    | 1        | 1280x1024                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:              | Firmware issue, failed to set bitrate as 128k over VGA/D1.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>ISSM2063x</b>   | Refer to ISMC1063x  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480(N)<br>704x576(P) | 1-way | 4/0    | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| <b>IVC5055VF</b>   | Refer to IDC4050IR  | H.264<br>M-JPEG          | 1        | 1920x1080                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | -                    | Supported by design |
| <b>IVC5055VR</b>   | Refer to IDC4050VF (XNET.M1-3.00.13.1125)   | H.264<br>M-JPEG          | 1        | 1920x1080                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:              | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IVP4000VR</b>   | XNET.A1-1.1.9.1028  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480                  | 1-way | -      | -   | -              | Yes  | -                  | Yes                  |                     |
| <b>IVP4030VR</b>   |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960                 | 1-way | -      | -   | -              | Yes  | -                  | Yes                  | Supported by design |
| <b>IVP4030VR</b>   | XNET.A1-2.01.13.0204  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960                 | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:              | In the MJPEG format, the fps is not enough when resolution is XGA or SXGA.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IVP5035VR</b>   | Refer to IGP2035F (XNET.M2-2.00.12.1026)  | H.264                    | 1        | 1280x1024                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>IVP5035VR</b>   | XNET.M2-3.00.13.0204  | H.264                    | 1        | 1280x1024                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:              | Firmware issue, failed to set bitrate as 128k over VGA/D1.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IXC2050IR</b>   | XNET.M1-3.00.13.0204  | H.264<br>M-JPEG          | 1        | 1920x1080                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:              | 1. Cannot set bitrate 128kbps when the resolution is D1 or VGA. It is firmware issue.<br>2. When it selects MJPEG, 1fps, the actually received fps is 6.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>IXP3035VR</b>   | XNET.M2-3.00.13.0204  | H.264                    | 1        | 1280x1024                | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:              | Firmware issue, failed to set bitrate as 128k over VGA/D1.  |                          |          |                          |       |        |     |                |      |                    |                      |                     |
| <b>MPC1070PN</b>   | 1.0.46  | H.264<br>MJPEG           | 1        | 2592x1944                | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:              | 1. Fisheye camera<br>1. (Camera performance limitation) Camera is unable to achieve maximum FPS.<br>2. (Camera firmware issue) Audio stutter with G.711.<br>3. (Camera performance limitation) MJPEG bitrate setting is restricted by fps setting.<br>4. (Camera performance limitation) 2nd stream and 3rd stream are unable to achieve 500k/100k bps. |                          |          |                          |       |        |     |                |      |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| MVC2050VR   | 3.4.2  | H.264        | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1.Motion can't be used when the camera connected about 1 min. [Camera Firmware Issue]<br>2.Camera search fail if UPnP enable on camera web. [NUUO server limitation]<br>3.The audio function can't be used. [Camera Firmware Issue]<br>4.There has only support FPS up to 10 when the resolution is 1280x720. [Camera Firmware Issue]<br>5.The bitrate list was different from camera web. [Camera Firmware Issue] |              |          |                |       |        |     |                |      |                    |                      |                     |
| NDE5055MF   | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |
| NDE5055VR   | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |
| NGE2055F    | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |
| NVE5055MF   | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |
| NVE5055VR   | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |
| NXE3055MR   | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |
| NXE3055VR   | XNET.N1-1.02.13.0204   | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| Note:       | 1. Video connection cannot establish when the setting of bitrate is 9M or 10M.   |              |          |                |       |        |     |                |      |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name         | Tested Firmware   | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|---|-----------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| <b>HCVR5104H</b>    | 3.200.0005.1<br>.R, build :<br>2014-04-27   | H.264           | 4        | 1280x720       | 1-way | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:               | 1.The bit-rate values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)<br>2.The auto detection and the UPnP searching are not supported. (DVR Firmware issue)<br>3.The audio-in is for Channel 1 only. (DVR Firmware issue)<br>4.The PCM audio format is not supported. (DVR Firmware issue)<br>5.The talk function is not supported. (DVR Firmware issue)<br>6.The move and auto-pan functions of PTZ are not supported. (DVR Firmware issue)<br>7.After doing focus-near or focus-far, it will do autofocus immediately. (DVR Firmware issue)<br>8.The auto-focus is not supported because it is not supported by the Dahua CGI API. (DVR Firmware issue)<br>9.The motion detection is not supported. (DVR Firmware issue)<br>10.In some cases (lower FPS), setting the video configuration will fail, even the bit-rate is fit. (DVR Firmware issue) |                 |          |                |       |        |      |                |      |                      |                     |
| <b>HDB3300</b>      |   | H.264<br>M-JPEG | 1        | 2048×1536      | 1-way | 2/1    | Yes  | Yes            | -    | Yes                  | Supported by design |
| Note:               | HDB3300N and HDB3300P are compatible with HDB3300   |                 |          |                |       |        |      |                |      |                      |                     |
| <b>HDBW3300</b>     | V2.000 ,<br>Update<br>2011.10.22  | H.264<br>M-JPEG | 1        | 2048×1536      | 1-way | 2/1    | Yes  | Yes            | -    | Yes                  |                     |
| Note:               | HDBW3300N and HDBW3300P are compatible with HDBW3300  |                 |          |                |       |        |      |                |      |                      |                     |
| <b>HF3110</b>       | V2.000 ,<br>Update<br>2011.10.22  | H.264<br>M-JPEG | 1        | 1280x960       | 1-way | 1/1    | Yes  | Yes            | -    | Yes                  |                     |
| Note:               | HF3110N and HF3110P are compatible with HF3110  |                 |          |                |       |        |      |                |      |                      |                     |
| <b>HF3211P</b>      | V2.000 ,<br>Update<br>2011.10.22  | H.264<br>M-JPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes  | Yes            | -    | Yes                  |                     |
| <b>HF3300</b>       | V2.000 ,<br>Update<br>2011.10.22  | H.264<br>M-JPEG | 1        | 2048×1536      | 1-way | 1/1    | Yes  | Yes            | -    | Yes                  |                     |
| Note:               | 1. HF3300N, HF3300N-W, HF3300P and HF3300P-W are compatible with HF3300<br>2. HF3300 series: there may be image noise of dual stream, which can be observed from the camera web as well.<br>3. Setting preset point doesn't work properly.<br>4. PTZ is only supported by external RS-485 device.   |                 |          |                |       |        |      |                |      |                      |                     |
| <b>IPC-EBW81200</b> | 2.400.0000.4<br>.R, build :<br>2015-08-06   | H.264<br>MJPEG  | 1        | 4000x3000      | 1-way | 2/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:               | Fisheye camera with manual calibration in Crystal<br>1. Server does not support G.726 and AAC. (NUUO server limitation)<br>2. The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)  |                 |          |                |       |        |      |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name         | Tested Firmware   | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|---|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>IPC-EBW8600</b>  | 2.400.0000.4<br>.R, build :<br>2015-08-06   | H.264<br>MJPEG | 1        | 3072x2048      | 1-way | 2/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:               | Fisheye camera with manual calibration in Crystal<br>1. Server does not support G.726 and AAC. (NUUO server limitation)   |                |          |                |       |        |     |                |      |                      |                     |
| <b>IPC-HFW1220S</b> | 2.420.0000.1<br>1.R, build :<br>2015-07-07  | H.264<br>MJPEG | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:               | 1. The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)   |                |          |                |       |        |     |                |      |                      |                     |
| <b>IPC-HFW5200</b>  | 2.42  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:               | 1. Sometime parameter dialog will fail to get codec parameter with high bitrate. (Camera performance limitation)<br>2. The range of parameter on camera will change by other parameter, our parameter dialog can't synchronize with camera. (Camera firmware issue)<br>3. Slow reaction when motion detection is triggered. (Camera performance limitation)<br>4. Polling the DI/Motion status will make the audio stutter (Camera performance limitation)  |                |          |                |       |        |     |                |      |                      |                     |
| <b>IPC-HFW5302C</b> | 2.420.0005.0<br>.R, build :<br>2014-12-05   | H.264<br>MJPEG | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:               | 1. The range of parameter on camera will change by other parameter, our parameter dialog can't synchronise with camera. (Camera firmware issue)<br>2. When framerate set to 1 and record dynamic picture, the picture's framerate may rise to 30 immediately. (Camera firmware issue)<br>3. Sometime parameter dialog will fail to get parameters with high resolution, framerate, and bitrate. (Camera performance limitation)<br>4. Zoom in/out will not run step by step, it will zoom to limit directly. (Camera firmware issue)<br>5. DO can not trigger. (Camera firmware issue)<br>6. PTZ only support zoom & focus. |                |          |                |       |        |     |                |      |                      |                     |
| <b>IPC-HF5100</b>   | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05)   | H.264<br>MJPEG | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| <b>IPC-HF5200</b>   | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05)   | H.264<br>MJPEG | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |





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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name     | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| IPC-HFW5100D    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5200D    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5100-IRA | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5200-IRA | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5100C    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5200C    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5300C    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5202C    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name     | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| IPC-HFW5100E-VF | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5200E-VF | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5300E-VF | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5200E-Z  | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HFW5300E-Z  | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5100    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5200    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5300    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name     | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| IPC-HDBW5202    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5302    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5100-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5200-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5300-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5202-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDBW5302-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5100     | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name    | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|----------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| IPC-HDB5200    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5300    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5202    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5302    | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5100-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5200-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5300-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| IPC-HDB5202-DI | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05) | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name           | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio   | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------------|--|--------------|----------|----------------|---------|--------|------|----------------|------|----------------------|---------------------|
| <b>IPC-HDB5302-DI</b> | Refer to IPC-HFW5302C(2.420.0005.0.R, build : 2014-12-05)  | H.264 MJPEG  | 1        | 2048x1536      | 1-way   | 2/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| <b>IPC-HD2100</b>     | 2.212.0000.1.T, build : 2014-02-08   | H.264 M-JPEG | 1        | 1280x960       | -       | -      | -    | Yes            | Yes  | Yes                  |                     |
| Note:                 | 1. The range of bitrate and framerate does not synchronous with the camera's website which may result in failure of stream parameter setting.<br>2. If enable MD and used MJPEG as stream codec which could result in video freeze then start play after few seconds.<br>3. There is invalid mac address in UPnP search.   |              |          |                |         |        |      |                |      |                      |                     |
| <b>IPC-HF81200E</b>   | 2.400.0000.7.R   | H.264 MJPEG  | 1        | 4000x3000      | 2-way   | 2/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:                 | 1. The bitrate of stream 1 in camera with highest resolution via MJPEG is higher than settings bitrate. (Camera performance limitation)<br>2. Audio codec via G.726 and AAC can not be used. (NUUO server limitation)<br>3. The list of Frame Rate is not synchronized with the one on camera web. (Camera Firmware issue)   |              |          |                |         |        |      |                |      |                      |                     |
| <b>IPC-HFW3200C</b>   | 2.212.0000.1.T, build : 2014-02-08   | H.264 M-JPEG | 1        | 1920x1080      | 1-way   | 2/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:                 | 1. The range of bitrate and framerate does not synchronous with the camera's website which may result in failure of stream parameter setting.<br>2. If enable MD and used MJPEG as stream codec which could result in video freeze then start play after few seconds.<br>3. There is big noise in audio with format PCM.<br>4. There is discontinuous audio with format G.711Mu and G.711A.<br>5. There is invalid mac address in UPnP search. |              |          |                |         |        |      |                |      |                      |                     |
| <b>IPC-HDB3101</b>    | Refer to IPC-HFW3101C (FW V2.103)  | H264 MJPEG   | 1        | 1280x960       | 1-way*2 | 2/1    | -    | *2             | *2   | Yes                  | Supported by design |
| <b>IPC-HDBW3101</b>   | Refer to IPC-HFW3101C (FW V2.103)  | H264 MJPEG   | 1        | 1280x960       | 1-way*2 | 2/1    | -    | *2             | *2   | Yes                  | Supported by design |
| <b>IPC-HFW3101C</b>   | V2.103   | H264 MJPEG   | 1        | 1280x960       | 1-way*2 | 2/1    | -    | *2             | *2   | Yes                  |                     |
| Note                  | FW issue, bit rate range is different between camera web and response to cgi.  |              |          |                |         |        |      |                |      |                      |                     |
| <b>IPC-HFW5421E-Z</b> | 2.400.0000.23.R, build : 2015-12-15  | H.264 MJPEG  | 1        | 2688x1520      | 1-way   | 2/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:                 | 1. Server does not support G.726 and AAC. (NUUO server limitation)<br>2. Image rotation may not synchronize with camera web. (Camera Firmware issue)   |              |          |                |         |        |      |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware   | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|---|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| SD52C220S-HN | 2.210.0003.0<br>.R.A.2017,<br>build : 2014-11-12  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note         | 1. The range of parameter on camera will change by other parameter, our parameter dialog can't synchronise with camera. (Camera firmware issue)<br>2. The camera can't be search by auto detection function and UPNP tool. (Camera firmware issue)<br>3. When framerate set to 1 and record dynamic picture, the picture's framerate may rise to 30 immediately. (Camera firmware issue)<br>4. Sometime parameter dialog will fail to get parameters with high resolution, framerate, and bitrate. (Camera performance limitation)<br>5. The setting may fail when setting format from MJPEG to H.264. (Camera firmware issue)<br>6. Audio and talk functions will fail with codec PCM. (Camera firmware issue) |                |          |                |       |        |     |                |      |                      |                     |
| SD32203S-HN  | Refer to<br>SD52C220S-<br>HN(2.210.00<br>03.0.R.A.201<br>7, build :<br>2014-11-12)  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD50220S-HN  | Refer to<br>SD52C220S-<br>HN(2.210.00<br>03.0.R.A.201<br>7, build :<br>2014-11-12)  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD50230S-HN  | Refer to<br>SD52C220S-<br>HN(2.210.00<br>03.0.R.A.201<br>7, build :<br>2014-11-12)  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD52C230S-HN | Refer to<br>SD52C220S-<br>HN(2.210.00<br>03.0.R.A.201<br>7, build :<br>2014-11-12)  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD50120S-HN  | Refer to<br>SD52C220S-<br>HN(2.210.00<br>03.0.R.A.201<br>7, build :<br>2014-11-12)  | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| SD52C120S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD40212S-HN  | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD42212S-HN  | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD42C212S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD59212S-HN  | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD59220S-HN  | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD59230S-HN  | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| SD59120S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD63220S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD63230S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD63120S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD6C220S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD6C230S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SD6C120S-HN | Refer to SD52C220S-HN(2.210.00 03.O.R.A.2017, build : 2014-11-12) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |





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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name         | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>SDZW2030S-HN</b> | Refer to SD52C220S-HN(2.210.0003.O.R.A.2017, build : 2014-11-12)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| <b>SD6366E-HN</b>   | 2.213.0000.1.R, build : 2013-12-27   | H.264 M-JPEG | 1        | 704x576        | 1-way | *2     | Yes | Yes            | *2   | Yes                  |                     |
| Note:               | 1. There is no guarantee that the bitrate values in the combo box is valid. User should apply a value in the valid C14range (can be get from the web page of the camera) so that the setting can be applied successfully.<br>2. FW Issue: the Dahua CGI API dose not support the autofocus command though the camera has the function of autofocus.  |              |          |                |       |        |     |                |      |                      |                     |
| <b>SD65XX-HN</b>    | 2.102.0001.0.D   | H.264 M-JPEG | 1        | 1920x1280      | 1-way | 7/2    | Yes | Yes            | -    | Yes                  |                     |
| Note:               | 1. MJPEG not support MD<br>2. FW issue, MJPEG bitrate can't not set over 8192.   |              |          |                |       |        |     |                |      |                      |                     |
| <b>SD69XX-HN</b>    | refer to SD65XX-HN   | H.264 M-JPEG | 1        | 1920x1280      | 1-way | 7/2    | Yes | Yes            | -    | Yes                  | Supported by design |
| Note:               | 1. MJPEG not support MD<br>2. FW issue, MJPEG bitrate can't set over 8192.   |              |          |                |       |        |     |                |      |                      |                     |
| <b>SD6A230</b>      | 2.212  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 7/2    | Yes | Yes            | *2   | Yes                  |                     |
| Note:               | 1. The permitted parameter list on camera will be changed by other parameters, our parameter dialog can't synchronize with camera. (Camera firmware issue)<br>2. The camera can't be searched by UPnP tools. (Camera firmware issue)<br>3. Slow reaction when motion detection is triggered. (Camera performance limitation)<br>4. Big audio noise with PCM. (Camera firmware issue)<br>5. CGI response "support flip/mirror", but actually not. (Camera firmware issue)<br>6. Polling the DI/Motion status will make the audio stutter. (Camera performance limitation) |              |          |                |       |        |     |                |      |                      |                     |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware                                 | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Generic     | 2.400.0000.23.R, build : 2015-12-15             | H.264 MJPEG  | 1        | 2688x1520      | 2-way | 2/2    | Yes | Yes            | Yes  | Yes*                 |         |
|             | 2.210.BW03.0.T.A.2017.3N.NR, build : 2015-11-06 | H.264 MJPEG  | 1        | 1920x1080      | 2-way | 2/1    | Yes | Yes            | Yes  | Yes*                 |         |

Note:

Firmware must be 2.400.0000.23.R, build : 2015-12-15 or above then can use generic model.  
 1. Server dose not support G.726, AAC, and G.711A with 16k. (NUUO server limitation)  
 2. Stream parameter setting may fail if the ranges of bitrate is not synchronized with the camera web. (Camera Firmware issue)  
 3. The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)  
 4. PTZ only supports zoom, focus, and autofocus.

Firmware must be 2.210.BW03.0.T.A.2017.3N.NR, build : 2015-11-06 or above then can use generic model.  
 1. Server dose not support G.726, AAC, and G.711A with 16k. (NUUO server limitation)  
 2. Zoom, focus, and gotoPreset work abnormally. (Camera Firmware issue)  
 3. Stream parameter setting may fail if the ranges of bitrate is not synchronized with the camera web. (Camera Firmware issue)  
 4. The list of frame rate is not synchronized with the one on the camera web. (Camera Firmware issue)



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-1100     | 1.00   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-1100L    | 1.03_4130  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-1130     | 1.00   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-1130L    | 1.03_4130  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-1201     | V0.00.01   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-1301     | V0.01.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | The resolution and bitrate list may not be synchronized with camera web. (Camera Firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2102     |  | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-2103     | V1.20  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. Camera cannot achieve maximum fps. (Camera performnace limitation)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2103B1   | Refer to DCS-2132LB(V2.00.05)  | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| DCS-2120     |  | MPEG4                    | 1        | 720x576        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-2120(TW) | 0201tw   | MPEG4                    | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| DCS-2121     |  | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-2130     | Refer to DCS-2103(1.20.00)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-2103B1   | Refer to DCS-2132LB1(v2.00.05)   | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-2132L    | 1.00.06  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1-way  | -   | Yes            | Yes  | Yes                  |                     |
| DCS-2132LB   | V2.00.05   | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. Audio-out will happen the loss of function when change the camera parameters. (Camera Firmware issue)<br>2. Audio codec only can choose G711. (Camera Firmware issue)<br>3. Sometimes motion can not be used. (Camera Firmware issue)<br>4. Resolution list does not synchronize with camera web, that cause all stream connection fail when a stream of the resolution sets to an out of boundary. (Camera Firmware issue) |                          |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-2132LB1 | v2.00.05   | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| Note:       | 1. Not support TCP/UDP. (Camera Firmware issue)<br>2. Talk is not clear. (Camera performance limitation)<br>3. The probability of the audio out becomes invalid when changing a parameter of streams. (Camera performance limitation)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2136L   | V0.03.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| DCS-2210    | v1.22  | H.264<br>MPEG4<br>MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. In aspect 4:3 mode, the framerate list of CGI is not synchronized with the camera web when a stream sets to 1440x1080 resolution. (Camera Firmware issue)<br>2. When the stream 1 with highest resolution, the stream 2,3 are unable to achieve the setting framerate. (Camera performance issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2210L   | Refer to DCS-2230L(v0.03.00)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-2230    | Refer to DCS-2210(v1.22)   | H.264<br>MPEG4<br>MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| DCS-2230L   | v0.03.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. The talk function can't be work. (Camera Firmware issue)<br>2. When the stream 1 with highest resolution, the stream 2,3 are unable to achieve the setting framerate. (Camera performance issue)<br>3. Stream 1 FPS will drop with the resolution large than 1024x768 when stream 2 or stream 3 connects in the same time. (Camera Performance issue) |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2310L   | Refer to DCS-2332L(1.02.00)  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 1. not support TCP/UDP<br>2. not support talk<br>3. The list of resolution is not synchronized with camera web. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2310LB1 | 0.03.00  | H.264<br>MJPEG           | 1        | 1280x720       | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. Control mode of resolution, framerate, bitrate cannot be changed under H.264 format. (Camera firmware issue)<br>2. The name of this camera in search window will show as DCS-2310L. (Camera firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2330L   | V1.00.01   | H.264<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. not support TCP/UDP<br>2. not support talk<br>3. The list of resolution is not synchronized with camera web. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-2332L   | 1.02.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Fps can not achieve to setting value. (Camera performance limitation)<br>2. Stream 3's settings would not syn. with camera web. (Camera firmware issue)<br>3. Resolution list may not sync with web. (Camera firmware issue)<br>4. Bitrate list may not sync with web. (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |



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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-3010    | v1.12.07   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. Stream would disconnect and motion would not be triggered due to camera limited performance. (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-3110    |  | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-3112    | v1.11.01   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. DI can not work. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-3220    |  | MPEG4                    | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-3220G   |  | MPEG4                    | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| DCS-3410    |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 2/1    | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-3411    | 1.02_4125  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-3415    | 1.00   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | DCS-3415 PTZ Support: zoom only.   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-3420    | 1.03   | MPEG4<br>M-JPEG          | 1        | 704x480        | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| DCS-3430    | 1.02_4125  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-3511    | v1.10.13   | H.264<br>MPEG4<br>MJPEG  | 1        | 1280x800       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. When sending a RS-485 command, the live view will be disconnected in a few seconds. (Camera Firmware issue)<br>2. Audio out can not work. (Camera Firmware issue)<br>3.Audio stutter with AAC and G.711, and G.711 is not clear. (Camera performance issue)<br>4.The digital output(DO) connector follows digital input(DI) to change status when DI is triggered.(Camera Firmware issue) |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-3530    | Refer to DCS-3511(v1.00.06)  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-3710    | 1.00   | MPEG4<br>M-JPEG          | 1        | 1280x960       | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-3710B1  | V0.02.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Because the CGI content does not include qualitymode field, the bitrate control mode is not synchronized with camera web. (Camera Firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-3713    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            |      | Yes                  |                     |
| DCS-3714    | v1.00.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Not support 8M bitrate. (Camera Firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| DCS-3715    | v1.20   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes  | Yes            | Yes  | -                    |                     |
| DCS-3716    | V1.03.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The quality setting of M-JPEG is unavailable. (camera Firmware issue)<br>2. The main stream of resolution and frame rate list are different with camera web in MPEG4. (camera Firmware issue)<br>3. The camera with highest resolution is unable to achieve the setting framerate. (camera performance limitation)<br>4. The frame rate list is different with camera web when resolution set to 2048x1536. (camera Firmware issue)<br>5. The 2nd stream with any resolution is unable to achieve the setting bitrate in MPEG4. (camera performance limitation)<br>6. Talk function has stutter. (camrea Firmware issue)<br>7. The camera of all profiles with highest setting are unable to achieve the setting framerate.(camera performance limitation)<br>8. Bit rate can not achieve web setting in any setting.(camera performance limitation) |                          |          |                |       |        |      |                |      |                      |                     |
| DCS-4201    | V1.00.02  | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The 2nd stream can not set to resolution 1280x720, when stream1 resolution is 1280x720.(Camera Firmware issue)<br>2. The camera with highest resolution is unable to achieve the setting framerate.(Camera performance limitation)   |                          |          |                |       |        |      |                |      |                      |                     |
| DCS-4602EV  | V1.00.01  | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The camera with highest resolution is unable to achieve the setting framerate in MJPEG.(Camera performance limitation)   |                          |          |                |       |        |      |                |      |                      |                     |
| DCS-4701E   | V1.00.02  | H.264<br>M-JPEG          | 1        | 1280x720       | -     | -      | -    | Yes            | Yes  | Yes*                 |                     |
| DCS-4802E   | Refer to DCS-4602EV(V1.00.01)   | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | Yes*                 | Supported by design |
| DCD-5000L   | v1.02.01  | MJPEG                    | 1        | 640x480        | 1-way | -      | Yes* | Yes            | Yes  | -                    |                     |
| DCS-5010L   | Refer to DCS-5020L(1.01)  | H264<br>MJPEG            | 1        | 640x480        | 1-way | -      | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| DCS-5020L   | 1.01  | H264<br>MJPEG            | 1        | 640x480        | 1-way | -      | Yes  | Yes            | Yes  | Yes                  |                     |
| DCS-5211L   | 1.10  | H.264<br>MPEG4           | 1        | 1280x720       | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. Only can patrol one times. (Camera firmware limitation)  |                          |          |                |       |        |      |                |      |                      |                     |
| DCS-5220    | 0200  | MPEG4                    | 1        | 720x576        | 1-way | -      | Yes  | Yes            | Yes  | -                    |                     |



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 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-5220 Bx  | 2.00  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-5220(TW) |   | MPEG4                    | 1        | 720x576        | 1-way | -      | Yes | Yes            | Yes  | -                    | Supported by design |
| DCS-5222L    | 1.10  | H.264<br>MPEG4           | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:        | 1. Only can patrol one times. (Camera firmware limitation)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-5222LB   | Refer to DCS-5222LB1(v2.01.05)  | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-5222LB1  | 2.01.05   | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-5222LB2  | Refer to DCS-5222LB1(2.01.05)   | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-5230     | 1.02_4317   | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-5230L    | 1.02_4317   | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-5605     | 1.01, 4126  | H.264<br>MPEG4<br>M-JPEG | 1        | 740x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-5610     |   | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-5615     | 1.00.02   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/0    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-5635     | 1.01, 4126  | H.264<br>MPEG4<br>M-JPEG | 1        | 740x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-6004L    | 0.00.01   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:        | DCS-6004L:<br>1. Resolution 176x144 and bitrate 8M are not the same as camera web. (Camera firmware issue)                  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6005L    | Refer to DCS-6004L(0.00.01)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-6010L    | v1.12.02  | H.264<br>MPEG4<br>MJPEG  | 1        | 1600x1200      | 1-way | -      | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. The resolution is changed to 1600x1200, that the display mode of fisheye is enforced to 4R mode. (Camera Firmware issue) |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6045L    | V1.00b3   | H.264                    | 1        | 1280x720       | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-6110     | 1   | M-JPEG                   | 1        | 720x576        | -     | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-6111     | 1.00  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |



- : not available on camera  
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 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-6112    | v2.10.02  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | DCS-6112:<br>1.The camera with highest quality and MJPEG format is unable to achieve 30 fps<br>2.The audio talk is not supported  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6112B1  | v3.00.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | 1.The camera with highest quality and MJPEG format is unable to achieve 30 fps. (Camera performance issue)<br>2.The audio talk is not supported. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6112V   |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-6113    | refer to DCS-6112(v2.10.02)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-6113B1  | v3.00.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-6113V   |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-6113VB1 | refer to DCS-6112B1(v3.00.00)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-6115    | v0.09.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1.In highest parameter setting with MJPEG are unable to achieve sufficient FPS.(Camera performance limitation)<br>2. Multi-Stream Settings in auto mode bitrate will too high. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6116    | v1.00.09  | H.264<br>MJPEG           | 1        | 2048x1536      | 1-way | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Frame rate lists are not synchronize with camera web on 50Hz. (Camera Firmware Issue)<br>2. Camera setting of speaker and mic switch doesn't synchronize with camera web. The status of them are in contrast. (Camera Firmware Issue)<br>3. Talk function with Alaw codec cannot work. (Camera Firmware Issue) |                          |          |                |       |        |     |                |      |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-6210    | v1.00.06  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Flip and Mirror of CGI are contrary the camera web. (Camera Firmware issue)<br>2. When move the camera, the camera is easily disconnect. (Camera performance limitation)<br>3. Audio has noise by using internal microphone. (Camera performance limitation)<br>4. In MJPEG, the live view displays 480x264 but the camera setting is 480x270. (Camera Firmware issue)<br>5. Each stream with any format and highest parameter setting are unable to achieve sufficient FPS. (Camera performance limitation)<br>6. The camera with highest setting is unable to achieve sufficient FPS in MJPEG. (Camera performance limitation)<br>7. The CGI's framerate and bitrate list is not same as camera web in the different resolution. (Camera Firmware issue)<br>8. Camera is unable achieve sufficient FPS with over 4M bitrate. (Camera Firmware issue)<br>9. In MPEG4 and MJPEG, the resolution list is not same as camera web.(Camera Firmware issue)<br>10. In MJPEG, the live view displays 800x448 but the camera setting is 800x450. (Camera Firmware issue)<br>11. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will mosaic.(Camrea performance limitation) |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6212L   | 0.01.00   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-6314    | v1.01   | H.264<br>MPEG4<br>MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1.Camera with highest resolution is unable to achieve maximum FPS in any format. (Camera performance issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6315    | Refer to DCS-6115(V0.09.00)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| DCS-6410    | 1.00  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 2/1    | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-6510    | v1.02   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | *2    | *2     | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. It will return a JPEG image with resolution 640x360(aspect ratio 16:9), or 640x480(aspect ratio 4:3). (Camera performance limitaion)<br>2. Audio and I/O can not test without connector.   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6511    | V1.12.04  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | DCS-6511:<br>1.PTZ only support zoom and focus<br>2. When changing format from others format to MPEG4, the resolution "176x144" is not synchronized with resolution list. (Camera Firmware issue)<br>3.Camera is unable to achieve maximum FPS. (Camera performance limitation)   |                          |          |                |       |        |     |                |      |                      |                     |



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 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-6513    | 1.02.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. PTZ only supports focus.<br>2. In aspect ratio 4:3, the resolution of profile2 can't set 2048x1536 with H.264 and MJPEG. (Camera Firmware issue)<br>3. We can't integrate zoom function in our system, due to CGI request only has get operation by defining NIPCA 1.9.5. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-6515    | Refer to DCS-7518(v1.00.00)   | H.264                    | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-6517    | Refer to DCS-7517(1.00.03)  | H.264<br>MJPEG           | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| DCS-6616    | 0.01.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 8/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-6620    | 1.05  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| DCS-6620G   | 1.05  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| DCS-6815B1  | 0.01.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 8/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-6817B1  | 0.01.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 8/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-6818B1  | 0.01.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 8/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-6915    | v1.00.10  | H.264                    | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-6915B1  | refer to DCS-6915(v1.00.10)   | H.264                    | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-7000L   | v0.09.00  | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. The parameters of the camera are not configurable with H.264 format. (Camera Firmware issue)<br>2. The format of the camera is not configurable from MJPEG to H.264. (Camera Firmware issue)<br>3. The camera with highest quality/resolution and MJPEG format is unable to achieve 30 fps. (Camera Firmware issue)<br>4. Sever format list is not same as camera web format list. (Camera Firmware issue) |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7010L   | V1.05.03  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The camera with highest resolution is unable to achieve the setting framerate in H.264 and MPEG4. (Camera performance limitation)<br>2. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will mosaic. (camera firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7110    | v1.20_20120517  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |



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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-7110A3  | V2.10.03  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | 1.The resolution 176x144 can't sync with web (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7110B1  | V3.00.04  | H.264<br>MPEG4<br>MJPEG  | 1        | 1920x1080      | -     | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1.The camera with highest quality and resolution cannot achieve 30 fps. (Camera performance issue)<br>2.The framerate list will not change when resolution has been changed. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7410    | 1.00_3710   | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-7413    | 1.00.02   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-7413 B1 | V2.11.08  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The camera with highest bitrate and resolution are unable to achieve the setting framerate. (Camera performance issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7510    | 1.00  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 2/1    | -   | Yes            | Yes  | -                    | Supported by design |
| DCS-7513    | V1.11.06  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The camera with highest bitrate and resolution are unable to achieve the setting framerate. (Camera performance issue)<br>2. When the format changes to MPEG4 before format is H.264 or MJPEG with the 176x144 resolution, the display will mosaic. (Camera Firmware issue)<br>3. The live view is not clear when the resolution changes to 320x176 or 480x270 in MPEG4. (Camera Firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7517    | V1.00.03  | H.264<br>MJPEG           | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Audio out function could not work. (Camera Firmware issue)<br>2. Audio in function only support G.711 codec. (Camera Firmware issue)<br>3. OSD of live view is showed 960x536 when camera web is setting 960x540 resolution in MJPEG. (Camera Fireware issue)<br>4. Zoom and focs functions are not support. (Camera Fireware issue)<br>5. DI is triggered and DO status also opposites. (Camera Fireware issue)<br>6. Motion detection(MD) function is invalid when MD has activated for a long time. (Camera Fireware issue) |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-7518    | V1.00   | H.264                    | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. Can not search the camera by UPnP. (Camera firmware issue)<br>2. Talk function will fail with G.711 a-law. (Camera firmware issue)<br>3. Camera video parameter of contrast will fail when set up to 9. (Camera firmware issue)<br>4. The list of resolution and framerate is not synchronized with camera web. (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-900     | 1.00  | MPEG4                    | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| DCS-910     | 1.00  | MPEG4                    | 1        | 640x480        | -     | -      | -   | -              | Yes  | -                    | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware                     | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-------------------------------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-920     |                                     | M-JPEG                   | 1        | 640x480        | -     | -      | -   | -              | Yes  | -                    | Supported by design |
| DCS-930     | 1.00 build 2                        | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-930L    | 1.00 build 2                        | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-930LB   | Refer to DCS-930LB1(v2.00 b1)       | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-930LB1  | 2.00                                | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | Camera issue: Auto detection faild. |                          |          |                |       |        |     |                |      |                      |                     |
| DCS-931L    | 1.00_b4                             | H.264<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-932     | 1.00                                | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-932L    | 1.05_2012-10-26_2.0.16-b4           | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-932LB   | Refer to DCS-932LB1(v2.00 b1)       | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-932LB1  | refer to DCS-930LB1(v2.00 b1)       | M-JPEG                   | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-933L    | 1.00_b4                             | H.264<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-935L    | V1.00                               | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| DCS-940L    | 1                                   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-942L    | 1.2                                 | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-942LB   | Refer to DCS-942LB1(v2.00 b1)       | H.264<br>MJPEG<br>MPEG4  | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-942LB1  | V2.00_3815                          | H.264<br>MJPEG<br>MPEG4  | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| DCS-950     |                                     | MPEG4                    | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| DCS-950G    |                                     | MPEG4                    | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| DCS-G900    |                                     | M-JPEG                   | 1        | 640x480        | -     | -      | -   | -              | Yes  | -                    | Supported by design |
| DCS-N2100   |                                     | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | -      | -   | Yes            |      | Yes                  |                     |



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 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-N2104   |                 | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | -      | -   | Yes            |      | Yes                  |                     |
| DCS-N2200   |                 | MPEG4<br>M-JPEG          | 1        | 1280x1024      | -     | -      | -   | Yes            |      | Yes                  |                     |
| DCS-N2204   |                 | MPEG4<br>M-JPEG          | 1        | 1280x1024      | -     | -      | -   | Yes            |      | Yes                  |                     |
| DCS-N3530   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 2/2    | -   | Yes            |      | Yes                  |                     |
| DCS-N3531   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 2/2    | Yes | Yes            |      | Yes                  |                     |
| DCS-N3534   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 2/2    | Yes | Yes            |      | Yes                  |                     |
| DCS-N4141   |                 | MPEG4<br>M-JPEG          | 1        | 1280x1024      | -     | 1/1    | -   | Yes            |      | Yes                  |                     |
| DCS-N4532   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | -   | Yes            |      | Yes                  |                     |
| DCS-N4533   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | -   | Yes            |      | Yes                  |                     |
| DCS-N5424   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N5440   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N5441   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N5442   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N5444   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N6240   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N6241   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DCS-N6244   |                 | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes | Yes            |      | Yes                  |                     |
| DVS-104     |                 | M-JPEG                   | 4        | 720x576        | -     | 4/2    | -   | Yes            | Yes  | -                    | Supported by design |
| DVS-210-1   | 1.00.01         | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DVS-310-1   | 1.00.11         | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DVS-N1010   |                 | MPEG4<br>M-JPEG          | 4        | 720x576        | -     | 4/4    | Yes | Yes            |      | Yes                  |                     |



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 For multi stream support:  
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 Yes\*: multi stream setting support

| Device Name     | Tested Firmware               | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-----------------|-------------------------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| DVS-N3010       |                               | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 2/2    | Yes | Yes            |      | Yes                  |         |
| DVS-N3011       |                               | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 2/2    | Yes | Yes            |      | Yes                  |         |
| DVS-N3014       |                               | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 2/2    | Yes | Yes            |      | Yes                  |         |
| DVS-N3040       |                               | MPEG4<br>M-JPEG          | 4        | 700x576        | -     | 4/4    | Yes | Yes            |      | Yes                  |         |
| DVS-N3041       |                               | MPEG4<br>M-JPEG          | 4        | 688x544        | -     | 4/4    | Yes | Yes            |      | Yes                  |         |
| DVS-N3044       |                               | MPEG4<br>M-JPEG          | 4        | 688x544        | -     | 4/4    | Yes | Yes            |      | Yes                  |         |
| Universal Model | Tested bt DCS-2332L(V1.01.02) | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | -    | Yes                  |         |



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 Yes\*: multi stream setting support

| Device Name     | Tested Firmware  | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|--|--------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-H_Series    |  | H.264 M-JPEG       | 1        | 2592x1944      | 1-way | 4/2    | Yes | Yes            | -    | Yes                  | Supported by design |
| DCS-V_Series    |  | H.264 MPEG4 M-JPEG | 1        | -              | 1-way | 4/4    | Yes | Yes            | -    | Yes                  | Supported by design |
| DCS-H30-51D/S   | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H41-11D/SI  | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H41-11D/SO  | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H42-21D/SA  | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H42-21D/SM  | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H50-21D/S   | 1.0.0X0(20140307)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DCS-H70-21D     | 2.0.9A5S2  | H264 MJPEG         | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:           | Which covered DCS-H70-21D/A and DCS-H70-21D/M  |                    |          |                |       |        |     |                |      |                      |                     |
| DCS-H70-21D/M   | 2.0.9A5S2  | H264 MJPEG         | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-H70-21D/SA1 | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H70-21D/SM1 | Refer to DCS-H50-21D/S(1.0.0x0)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| DCS-H70-22D     | 2.0.9A5S2  | H264 MJPEG         | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-N40M-81H3   | VC1.0.10   | H264 MJPEG         | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:           | DCS-N40M-81H3: Not support TCP/UDP   |                    |          |                |       |        |     |                |      |                      |                     |
| Note:           | Firmware Issue: Not support Motion Detection; Bitrate List on web shows 3Mkbps (the truly Bitrate value of camera could be 3Mkbps or 2.5Mkbps) |                    |          |                |       |        |     |                |      |                      |                     |
| DCS-N20M-10H2   | Refer to DCS-V70M-21H (v1.0.30)  | H264 MJPEG         | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N30M-51H2   | Refer to DCS-V70M-21H (v1.0.30)  | H264 MJPEG         | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |



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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name   | Tested Firmware                   | Video Format           | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|-----------------------------------|------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-N31M-21H3 | Refer to DCS-V70M-21H2 (VB1.0.29) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N40M-53H2 | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N62-40H2  | V1.0.40                           | H264<br>MJPEG          | 1        | 720x480        | 1-way | 1/1    | Yes | -              | Yes  | Yes                  |                     |
| DCS-N70M-20H2 | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N70M-21H3 | VB1.0.26                          | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-N31M-21H3 | Refer to DCS-N70M-81H3 (VC1.0.10) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N40M-22H3 | Refer to DCS-N70M-81H3 (VC1.0.10) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N40M-22H3 | Refer to DCS-V70M-21H2 (VB1.0.29) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N40M-32H2 | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N70M-21H3 | Refer to DCS-V70M-21H2 (VB1.0.29) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V30M-50H  | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V30M-51H  | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V30M-51H2 | Refer to DCS-N70M-81H3 (VC1.0.10) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V40M-12H  | Refer to DCS-V70M-21H2 (VB1.0.29) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V40M-32H  | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |





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 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name   | Tested Firmware                   | Video Format           | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|-----------------------------------|------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DCS-V40M-32H2 | Refer to DCS-V70M-21H2 (VB1.0.29) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V40M-33H  | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V70M-11H  | Refer to DCS-V70M-21H2 (VB1.0.29) | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V70M-20H  | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-V70M-21H  | v1.0.30                           | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-V70M-21H2 | VB1.0.29                          | H264<br>MPEG4<br>MJPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DCS-V70M-50H  | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DCS-N70M-50H2 | Refer to DCS-V70M-21H (v1.0.30)   | H264<br>MJPEG          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |



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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Generic     | z120141215<br>NSZ  | H.264<br>M-JPEG          | 1        | 2592x1944      | 1-way | 4/2    | Yes | Yes            | -    | Yes*                 |         |
| Note:       | Fisheye camera with manual calibration in Crystal<br>Generic support model: W1-BA100, W2-BAZ40, W5-CDWKO, NH073, NH063<br>Parameter setting will fail when mutistream is allow and resolution higher than 1080p.<br>PT function are not test on software.<br>The maximum resolution is depends on camera.<br>Camera (Z series) firmwave must be z120141215NSZ or above then can use generic model.<br>Camera (W series) firmwave must be z120130417NSA or above then can use generic model.<br>Camera (X series) firmwave must be z120141027NSA or above then can use generic model. |                          |          |                |       |        |     |                |      |                      |         |
| na063       | z120120523<br>NSA  | H2.264                   | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |
| Note:       | 1. Video parameter can't sync with camera web interface, need to refresh the browser<br>2. Talk quality is not clear<br>3. Camera doesn't tranport sufficient framerate when stream parameter set to high resolution & quality, and camera's reponse will become slowly.   |                          |          |                |       |        |     |                |      |                      |         |
| NA083       | z120131016<br>NSA  | H.264<br>M-JPEG          | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |
| Note:       | 1. M-JPEG on high resolution and quality may not get parameter.<br>2. Audio has some noise in high resolution.   |                          |          |                |       |        |     |                |      |                      |         |
| NH061-CCD   | CCD-cameraFw-100205P   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |
| Note:       | Camera FW is not stable enough, so camera is likely disconnected after modifying parameters. Current workaround is turning off and on to reboot camera.<br>Remove resolution 1280x720 in H.264 codec due to broken image problem.<br>Known FW issue: audio may be broken in certain operation.   |                          |          |                |       |        |     |                |      |                      |         |
| NH221-CCD   | CCD-cameraFw-100205P   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |
| Note:       | Remove resolution 1280x720 in H.264 codec due to broken image problem.<br>The image is broken badly when configuring to the highest resolution, fps, and quality under H.264/MPEG4 with UDP protocol.<br>Known FW issue: audio may be broken in certain operation.   |                          |          |                |       |        |     |                |      |                      |         |
| NH720-20N1  | pm20120222<br>NSA  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 4/2    | -   | Yes            | Yes  | Yes                  |         |
| NH720-20N8  | Refer to<br>NH820-20N8<br>(z120131126  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |         |
| NH820-20N1  | pm20120222<br>NSA  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |         |
| NH820-20N8  | z120131126<br>NSA  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |         |
| nv053       | pm20120222<br>NSA  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| nv063       | pm20120222<br>NSA  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |
| nv103       | pm20120222<br>NSA  | MJPEG/H<br>264           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| nv223       | z120130417 NSA   | MJPEG/H 264  | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | nv223's PTZ only support Zoom.<br>nv223 support zoom or not is depends on spec.                                |              |          |                |       |        |     |                |      |                      |                     |
| V1-A        |  | H.264 M-JPEG | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| V1-B        | d20100630NS  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | There is high possibility to get broken image on the edge under H.264 codec with UDP protocol.                 |              |          |                |       |        |     |                |      |                      |                     |
| V2-A        |  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| V2-B        | d20100826NS  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| V6-A        |  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| V6-B        | d20100630NS  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | The image is broken badly when configuring to the highest resolution, fps, quality, etc.                       |              |          |                |       |        |     |                |      |                      |                     |
| Note:       | Model A is referred to model B, promised by the manufacturer, so model A may encounter same issues of model B. |              |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| GLC-1401    | 1.42            | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/0    | Yes | Yes            | Yes  | -                    | Supported by design |
| GLC-1601    | 1.43            | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/0    | Yes | Yes            | Yes  | -                    |                     |
| GLC-1602H   | 1.43            | H.264<br>M-JPEG | 1        | 720x576        | 1-way | 1/0    | Yes | Yes            | Yes  | -                    |                     |
| GLC-1610H   |                 | H.264<br>M-JPEG | 1        | 720x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| GLC-1701/IR | 1.45            | MPEG4<br>M-JPEG | 1        | 720x576        | -     | 1/0    | -   | Yes            | Yes  | Yes                  |                     |
| GLD-1401    | 1.40            | MPEG4<br>M-JPEG | 1        | 720x576        | -     | 1/0    | -   | Yes            | Yes  | -                    |                     |
| GLD-1501/IR | 1.43            | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/0    | Yes | Yes            | Yes  | -                    |                     |
| GLS-2101    | 1.45            | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/0    | Yes | Yes            | Yes  | -                    |                     |
| GLS-2104    | 1.78            | M-JPEG          | 4        | 704x272        | 1-way | -      | Yes | Yes            | Yes  | Yes                  |                     |
| GLS-2301H   | 1.09            | H.264<br>M-JPEG | 1        | 720x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| NLC-1401    | v1.5.6          | H.264<br>MPEG4  | 1        | 704x576        | 1-way | 1/0    | Yes | Yes            | Yes  | Yes                  |                     |
| NLD-1401    | v1.5.6          | H.264<br>MPEG4  | 1        | 704x576        | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |                     |
| NLS-1401    | v1.5.6          | H.264<br>MPEG4  | 1        | 704x576        | 1-way | 2/0    | Yes | Yes            | Yes  | Yes                  |                     |
| NXC-1301M   | v2.1.2          | H.264           | 1        | 1280x720       | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXC-1302M   | v2.1.2          | H.264           | 1        | 1600x1200      | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXC-1401M   | v2.1.2          | H.264           | 1        | 1280x720       | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXC-1402M   | v2.1.2          | H.264           | 1        | 1600x1200      | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXD-1301M   | v2.1.2          | H.264           | 1        | 1280x720       | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXD-1302M   | v2.1.2          | H.264           | 1        | 1600x1200      | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXD-1401M   | v2.1.2          | H.264           | 1        | 1280x720       | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| NXD-1402M   | v2.1.2          | H.264           | 1        | 1600x1200      | -     | 2/0    | -   | Yes            | Yes  | Yes                  |                     |



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 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name         | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>GXB-1710M-IR</b> | refer to GXC-1710M   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>GXB-1720M-IR</b> | Refer to GXC-1720M   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>GXC-1605M</b>    | Refer to GXC-1606M-IR  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>GXC-1606M-IR</b> | 2.03   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| <b>GXC-1710M</b>    | 2.11   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:               | Audio is disabled currently for camera FW bug: NXC-1301M, NXC-1302M, NXC-1401M, NXC-1402M, NXD-1301M, NXD-1302M, NXD-1401M and NXD-1402M |                          |          |                |       |        |     |                |      |                      |                     |
| Note:               | PTZ is only supported by external RS-485 device.   |                          |          |                |       |        |     |                |      |                      |                     |
| <b>GXC-1720M</b>    | 1.05_Beta  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| <b>GXD-1610M-IR</b> | Refer to GXC-1606M-IR  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>GXD-1710M-IR</b> | refer to GXC-1710M   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>GXD-1720M-IR</b> | Refer to GXC-1720M   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>PXB-1080Z03</b>  | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>PXB-2080MIR</b>  | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>PXB-2080Z03</b>  | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>PXB-2180Z03</b>  | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>PXC-2080CS</b>   | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |



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 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name     | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| PXC-2080Z03     | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| PXD-1010F02     | vr20121016NSA   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| PXD-1020F02     | Refer to PXD-1020F02 (vr20121016NSA)  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:           | Parameter setting will fail when Mjpeg quality bigger than 60   |              |          |                |       |        |     |                |      |                      |                     |
| PXD-2030PTZ1080 | vr20140416NSA   | H.264 MJPEG  | 1        | 1920x1080      | *2    | *2     | Yes | *2             | *2   | Yes                  |                     |
| Note:           | PXD-2030PTZ1080: High quality caused the fps lower.(Camera limitation issue)  |              |          |                |       |        |     |                |      |                      |                     |
| PXD-2080MIR     | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| PXD-2080Z03     | Refer to PXD-2080Z03IR (FW: 4.19-20-ds)   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| PXD-2080Z03IR   | 4.19-20-ds  | H264 MJPEG   | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | -                    |                     |
| Note:           | 1. Only support rtsp port 554 due to camera firmware issue.<br>2. Only integrate NTSC mode due to camera firmware issue.<br>3. Audio will be discontinuous under fps 1.<br>4. Framerate may not enough under high resolution, framerate and quality settings. |              |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|---|--------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| EV8180A      | 1.1.4 (build 003)   | MJPEG, H264        | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| EV8180Q - XD | 1.1.4 (build 003)   | MJPEG, H264        | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:        | EV8180Q-XD and EV8180A<br>1. Under four profile mode only support resolution 640x480. (camera limitation)<br>2. MotionDetection only works on H.264.<br>3. It needs to reboot after changing HTTP port. |                    |          |                |       |        |     |                |      |                      |                     |
| EV8580A      | Refer to EV8180A (1.1.4 (build 003))  | MJPEG, H264        | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| EV8581A      | Refer to EV8180A (1.1.4 (build 003))  | MJPEG, H264        | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| EV8582U-BL   | 1.1.6 (build 003)   | MJPEG, MPEG4, H264 | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note         | 1.Camera only support MD under H.264.   |                    |          |                |       |        |     |                |      |                      |                     |
| EV8780A      | Refer to EV8180A (1.1.4 (build 003))  | MJPEG, H264        | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| EV8781A      | Refer to EV8180A (1.1.4 (build 003))  | MJPEG, H264        | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| EV8782A      | Refer to EV8180A (1.1.4 (build 003))  | MJPEG, H264        | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| EV8782Q - BD | Refer to EV8180Q-(XD1.1.4 (build 003))  | MJPEG, H264        | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| N51A-ML      | Refer to N71U-ML(FW 1.1.6 (build 003))  | H264 MJPEG MPEG4   | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| N50U-ML      | Refer to N71U-ML(FW 1.1.6 (build 003))  | H264 MJPEG MPEG4   | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| N51U-ML      | Refer to N71U-ML(FW 1.1.6 (build 003))  | H264 MJPEG MPEG4   | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format           | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|--|------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| N71U-ML     | 1.1.6 (build 003)  | H264<br>MJPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note        | 1.Camera only support Focus and Zoom .<br>2.Audio with noise.<br>3.Camera only support MD under H.264.<br>4.Dual stream will not connect if settings of main stream is MPEG4, 1080P and FPS over 20. |                        |          |                |       |        |     |                |      |                      |         |





- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| EAN3200     | 1.0.14  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    |                     |
| EAN800A     | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -            | -                    |                     |
| EAN800AW    | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -            | -                    | Supported by design |
| EAN850A     | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -            | -                    |                     |
| EAN900      | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | -            | -                    |                     |
| Note:       | Fix stream 1 as recording stream and fix stream 2 for mobile client used. |                          |          |                |       |        |     |                |      |              |                      |                     |
| EAN2150     | CCD-cameraFw-100811P  | MPEG4<br>M-JPEG<br>H.264 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |                     |
| EAN2350     | ev20111116NSA   | H.264,<br>MJPEG          | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |                     |
| EAN2218     | ev20111116NSA   | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |                     |
| EAN3120     | V1.0.5  | H.264,<br>MJPEG          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |                     |
| EAN3220     | V1.0.5  | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |                     |
| EAN3300     | refer to EHN3340(1.2.4)   | M-JPEG<br>H.264          | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes          | Yes                  | Supported by design |
| EDN1220     | 1.0.8   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 0/0    | -   | Yes            | Yes  | Yes          | Yes                  |                     |
| Note:       | 1. Not support Mpeg4<br>2. can't switch CBR/VBR.<br>3. only support VBR.  |                          |          |                |       |        |     |                |      |              |                      |                     |
| EDN1320     | 1.0.8   | M-JPEG<br>H.264          | 1        | 2048x1536      | 1-way | 0/0    | -   | Yes            | Yes  | Yes          | Yes                  |                     |
| Note:       | 1. Not support Mpeg4<br>2. can't switch CBR/VBR.<br>3. only support VBR.  |                          |          |                |       |        |     |                |      |              |                      |                     |
| EDN2210     | ev20121002NSA   | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | -            | Yes                  |                     |
| EDN2245     | ev20111028BNS   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |                     |
| EDN2260     | 1.3.0.d   | H.264<br>MPEG4<br>MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | -              | Yes  | Yes          | Yes                  |                     |
| Note:       | 1. The value of H.264 quality isn't synchronized with camera's web        |                          |          |                |       |        |     |                |      |              |                      |                     |
| EDN3240     | 1.0.14  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    |                     |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks                |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|------------------------|
| EDN3160     | 1.0.18  | M-JPEG<br>H.264          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| EDN3260     | 1.0.18  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| EDN3340     | refer to<br>EHN3340(1.2<br>.4)  | M-JPEG<br>H.264          | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes          | Yes                  | Supported by<br>design |
| EDN800      | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -            | -                    |                        |
| EDN850H     | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -            | -                    |                        |
| EHN3160     | 1.0.18  | M-JPEG<br>H.264          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| EHN3200     | 1.0.14  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    |                        |
| EHN3260     | 1.2.5B2   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| Note:       | 1. CBR mode is not supported. (Camera firmware limitation)<br>2. It will lose parameters of stream2 and stream3 if disable stream2 and stream3 on camera web. (Camera firmware limitation)  |                          |          |                |       |        |     |                |      |              |                      |                        |
| EDN3260     | 1.0.18  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    |                        |
| EHN3340     | 1.2.4   | M-JPEG<br>H.264          | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| Note:       | 1. Onvif test tool get "No MPEG4 support" but actually it support. (Camera firmware issue)<br>2. The audio in status can't synchronize to web client. (ONVIF limitation)<br>3. Cannot change the rate control mode. (ONVIF limitation)<br>4. Cannot get snapshot by CGI(404). (Camera firmware issue)<br>5. The brightness only change when the value is 50 (Camera firmware issue) |                          |          |                |       |        |     |                |      |              |                      |                        |
| EHN3361     | refer to<br>EZN3340(1.2<br>.5-B2)   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes          | Yes                  | Supported by<br>design |
| EMN2220     | 0.8.7-B10   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 0/0    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| Note:       | 1. can't switch CBR/VBR.<br>2. only support VBR.  |                          |          |                |       |        |     |                |      |              |                      |                        |
| EMN2320     | 1.0.1   | M-JPEG<br>H.264          | 1        | 2048x1536      | 1-way | 0/0    | -   | Yes            | Yes  | Yes          | Yes                  |                        |
| Note:       | EMN2320 no support 720x480, 704x480 and 640x480 resolution.   |                          |          |                |       |        |     |                |      |              |                      |                        |
| EPN2218     | ev20111116<br>NSA   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | -            | Yes                  |                        |
| EPN3100     | 1.2.14  | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 4/2    | Yes | Yes            | Yes  | -            | -                    | Supported by<br>design |
| EPN3600     | 1.2.14  | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 4/2    | Yes | Yes            | Yes  | -            | -                    |                        |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| EPN4122     | 1.0.5   | M-JPEG<br>H.264          | 1        | 1280x960       | 1-way | 2/2    | Yes | Yes            | Yes  | Yes          | Yes                  |                     |
| EPN4220     | 1.0.16  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes          | Yes                  |                     |
| Note:       | 1. The audio in status can't synchronize to web client. (ONVIF limitation)<br>2. Cannot change the rate control mode. (ONVIF limitation)<br>3. Cannot get snapshot by CGI(404). (Camera firmware issue)   |                          |          |                |       |        |     |                |      |              |                      |                     |
| EPN4220P    | refer to<br>EPN4220(1.0<br>.16)   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | -    | Yes          | Yes                  | Supported by design |
| EPN4230     | refer to<br>EPN4220(1.0<br>.16)   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | -    | Yes          | Yes                  | Supported by design |
| EQN2200     | 1.0.27  | H.264<br>MJPEG           | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    | Supported by design |
| EQN2201     | 1.0.27  | H.264<br>MJPEG           | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    | Supported by design |
| ETN2110     | v3.2.1.4  | M-JPEG<br>MPEG4<br>H.264 | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes                  |                     |
| Note:       | ETN2110: Motion detection is not compatible with MPEG4 codec because of camera firmware issue.  |                          |          |                |       |        |     |                |      |              |                      |                     |
| ETN2260     | 1.0.1_F1  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | -      | Yes | Yes            | -    | Yes          | Yes                  |                     |
| Note:       | 1.Not support CBR mode.(Camera firmware issue)<br>2.The quality value can't be sync with camera web.(Camera firmware issue)<br>3.Not support zoom and focus.(Camera firmware issue)<br>4.The resolution of snapshot always be 640x480.(Camera firmware issue)<br>5.The quality value can't be setup to 0, and the quality value can't be setup to 10 under MJPEG.(Camera firmware issue)<br>6.If there are duplicate name of preset point, the function of GoTo preset point and Clear All preset point will fail.(Camera firmware issue) |                          |          |                |       |        |     |                |      |              |                      |                     |
| EVS200A     | 1.2.8   | H.264<br>MPEG4<br>MJPEG  | 2        | 704x576        | 1-way | 2/2    | Yes | Yes            | Yes  | -            | -                    |                     |
| EVS200AW    | 1.2.8   | H.264<br>MPEG4<br>MJPEG  | 2        | 704x576        | 1-way | 2/2    | Yes | Yes            | Yes  | -            | -                    | Supported by design |
| Note:       | EVS200A/EVS200AW: Fix stream 1 as recording stream and fix stream 2 for mobile client used.<br>PTZ is only supported by external RS-485 device.   |                          |          |                |       |        |     |                |      |              |                      |                     |
| EVS410      | 1.0.21  | H.264<br>MJPEG           | 4        | 704x480        | 1-way | 4/1    | -   | Yes            | -    | Yes          | -                    |                     |
| Note:       | 1.MJPEG high resolution only can up to 10 fps.<br>2.Not support RS-485 ptz.   |                          |          |                |       |        |     |                |      |              |                      |                     |
| EZN3240     | 1.0.14  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes          | -                    |                     |
| EZN850      | 1.2.5   | H.264<br>MPEG4<br>MJPEG  | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -            | -                    |                     |
| Note:       | PTZ: support focus only.  |                          |          |                |       |        |     |                |      |              |                      |                     |
| Note:       | Implement with ONVIF protocol v1.02: EAN3200, EDN3240, EHN3200, EQN2200, EQN2201, EVS410, EZN3240   |                          |          |                |       |        |     |                |      |              |                      |                     |
| Note:       | Due to the limitation of ONVIF protocol, ONVIF search works only as cameras keep default administrator name and password.   |                          |          |                |       |        |     |                |      |              |                      |                     |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------|
| EZN3160     | 1.0.7-B1   | M-JPEG<br>H.264          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |         |
| EZN3260     | 1.2.4  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes                  |         |
| Note:       | 1. Third stream resolution can't set to 160x128<br>2. Stream2 and Stream3 are not sync with the value of onvif tool when close and open the stream2,stream3 check box in web site.<br>3. The quality value will correspond to website Bitrate/Quality depends on CBR/VBR.  |                          |          |                |       |        |     |                |      |              |                      |         |
| EZN3340     | 1.2.5-B2   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | *1  | Yes            | -    | Yes          | Yes                  |         |
| Note:       | 1.The parameters of the camera are not configurable with MPEG4 format.(Camera firmware issue)<br>2.Not support CBR mode.(Camera firmware issue)<br>3.Not support zoom and focus.(Camera firmware issue)<br>4.It will lose parameters of stream2 and stream3 if you disable stream2 and stream3 on camera web.(Camera firmware issue) |                          |          |                |       |        |     |                |      |              |                      |         |
| EZN3361     | refer to<br>EZN3340(1.2<br>.5-B2)  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes          | Yes                  |         |
| Generic     | 1.2.5B11   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -            | Yes*                 |         |
| Note:       | 1.Not support CBR mode.(Camera Firmware issue)<br>2.It will lose parameters of stream2 and stream3 if you disable stream2 and stream3 on camera web.(Camera performance limitation)  |                          |          |                |       |        |     |                |      |              |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks                |
|---------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|------------------------|
| ACM-PT500     | 2.03.16   | H.264<br>MPEG4           | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | -                  | Yes                  |                        |
| Note:         | Camera is unable to achieve maximum FPS. (Camera performance limitation)  |                          |          |                |       |        |     |                |      |                    |                      |                        |
| ACM-R2001     | 1.02.09   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  |                        |
| Note:         | Framerate may not enough about 2~8 fps due to camera issue.   |                          |          |                |       |        |     |                |      |                    |                      |                        |
| ACM-R3002     | Refer to<br>ACM-<br>V3103(FW<br>2.03.23A)   | H.264<br>MPEG4           | 1        | 2048x1536      | 1-way | 1/1    | *2  | Yes            | Yes  | -                  | Yes*                 | Supported<br>by design |
| Note:         | 1.Frame rate can't meet the requirements.(Camera performance limitation)<br>2.Not support zoom and focus.   |                          |          |                |       |        |     |                |      |                    |                      |                        |
| ACM-R3006     | 1.02.05T  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | *2     | *2  | Yes            | Yes  | -                  | Yes                  |                        |
| ACM-V3001     | 1.02.09   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | *2     | -   | Yes            | Yes  | -                  | Yes                  |                        |
| ACM-V3103     | 2.03.23A  | H264<br>MPEG4            | 1        | 2048x1536      | 1-way | 2/1    | *2  | Yes            | Yes  | -                  | Yes*                 |                        |
| Note:         | 1.Audio in can't be work.(Camera Firmware issue)<br>2.RS-485 can't be work.(Camera Firmware issue)<br>3.Alarm out can't be work.(Camera Firmware issue) |                          |          |                |       |        |     |                |      |                    |                      |                        |
| ACM-V3002     | Refer to<br>ACM-<br>V3103(FW<br>2.03.23A)   | H264<br>MPEG4            | 1        | 2048x1536      | 1-way | 2/1    | *2  | Yes            | Yes  | -                  | Yes*                 | Supported<br>by design |
| Note:         | 1.Frame rate can't meet the requirements.(Camera performance limitation)<br>2.Not support zoom and focus.   |                          |          |                |       |        |     |                |      |                    |                      |                        |
| C3000/C3000-W | v3.2.2.3  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                        |
| CDB-3VM835    | Refer to TCP-<br>HDVB835(VJ<br>2.0.02_F)  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported<br>by design |
| CDB-4KM552    | Refer to TCP-<br>KM465(VK2.<br>0.11.0_F)  | H.265<br>H.264<br>MJPEG  | 1        | 2592x1520      | 1-way | 1/1    | -   | *2             | Yes  | -                  | Yes*                 | Supported<br>by design |
| CDB-4KU852    | Refer to TCP-<br>4KU808(VH2.<br>0.0.12_F)   | H.264<br>MJPEG           | 1        | 3840x2160      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported<br>by design |
| CDB-5VM551    | Refer to TCP-<br>VM559(VC2.<br>0.26.6_F)  | H.264<br>M-JPEG          | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported<br>by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|--------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| CDB-720F     |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | *1   | -                  | Yes                  |                     |
| CDB-720F/IR  | V1.0.20_F  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | *1   | -                  | Yes                  |                     |
| CDB-720V     | VB1.0.26_F   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1-1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| CDB-720VIR   | VB1.0.26_F   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | *1   | -                  | Yes                  |                     |
| CDB-720VIR-H | VE2.0.14.2_F   | H.264<br>MJPEG           | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:        | 1. (Camera issue): FPS could not reach up to 20/30.<br>2. (Known issue): The info. of stream profile display failure |                          |          |                |       |        |     |                |      |                    |                      |                     |
| CDB-HD280    | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDB-HFD720   | Refer to TCP-HDVB720-H(VE2.0.20.8)   | H264<br>MJPEG            | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDB-HFD728   | refer to CDB-720VIR-H(VE2.0.14.2_F)  | H.264<br>MJPEG           | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| CDB-HFD828   | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDB-HFD828W  | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDB-MD602    | refer to TCP-MZ602(VG1.0.14_F)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| CDB-MV1080F  | VB1.0.32_F   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| CDB-MV720F   | VB1.0.28_F   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:        | Camera FW issue: framerate can not reach 30fps.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| CDB-MV720F-H | Refer to TCP-HDVB720-H(VE2.0.20.8)   | H264<br>MJPEG            | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP           | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|----------------|--------------------|----------------------|---------------------|
| CDB-T5        | V6.08.25-NB  | H.264<br>M-JPEG          | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes            | -                  | Yes*                 |                     |
| Note:         | Fisheye camera with manual calibration in Crystal<br>Only audio can ben exported while selecting MOV format in playback system. (NUUO server limitation)   |                          |          |                |       |        |     |                |                |                    |                      |                     |
| CDV-2M360     | VB1.0.32_F   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes            | -                  | Yes                  |                     |
| Note:         | Fisheye camera   |                          |          |                |       |        |     |                |                |                    |                      |                     |
| CDV-3F828     | Refer to TCP-<br>HDVB180(VE<br>1.0.20.6_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes            | -                  | Yes*                 | Supported by design |
| CDV-3V930     |  | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 1/1    | -   | Yes            | -              | -                  | -                    | Supported by design |
| CDV-3V930U    |  | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 1/1    | -   | Yes            | -              | -                  | -                    | Supported by design |
| CDV-3VM301    |  | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | VC1.0.<br>06_F | -                  | -                    | Supported by design |
| CDV-3VM501    | refer to TCP-<br>MH802(1.0.4<br>6)   | M-JPEG<br>H.264          | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes            | -                  | Yes                  | Supported by design |
| CDV-3VM800    | VC1.0.06_F   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes            | -                  | Yes                  |                     |
| CDV-3VM800-H  | refer to TCP-<br>HDVB800-<br>H(VE2.0.16.8<br>_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes            | -                  | Yes*                 | Supported by design |
| CDV-3VM800-H1 | refer to TCP-<br>HDVB800-<br>H(VE2.0.16.8<br>_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes            | -                  | Yes*                 | Supported by design |
| CDV-3VM800Z3  | Refer to TCP-<br>HDVB800Z3(<br>VC2.0.24.2_F  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes            | -                  | Yes*                 | Supported by design |
| CDV-3VM800Z42 | VE1.0.20.2_F   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes            | -                  | Yes*                 |                     |
| Note:         | 1. The camera with highest resolution and MJPEG is unable to achieve highest fps. (Camera firmware issue)<br>2. If connect 2 or above streams, bitrate and frame rate will decrease. (Camera performance limitation) |                          |          |                |       |        |     |                |                |                    |                      |                     |
| CDV-3VM835    | Refer to TCP-<br>HDVB835(VJ<br>2.0.02_F)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes            | -                  | Yes*                 | Supported by design |
| CDV-3VWD960   | V1.0.16_F  | H.264<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | -              | -                  | -                    |                     |
| CDV-3VWD960H  |  | H.264<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | -              | -                  | -                    | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware  | Video Format         | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------|--|----------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| CDV-4F936     | VH2.0.0.8_F  | H.264 MJPEG          | 1        | 2688x1520      | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:         | 1. Camera with highest resolution and MJPEG format is unable to use. (Camera performance limitation)   |                      |          |                |       |        |     |                |      |                    |                      |                     |
| CDV-4KM502    | Refer to TCP-KM465(VK2.0.11.0_F)   | H.265<br>H.264 MJPEG | 1        | 2592x1520      | 1-way | 1/1    | -   | *2             | Yes  | -                  | Yes*                 | Supported by design |
| CDV-4KU801    | Refer to TCP-4KU808(VH2.0.0.12_F)  | H.264 MJPEG          | 1        | 3840x2160      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDV-4VM501    | Refer to TCP-VM469(VH1.0.0_F)  | H.264 MJPEG          | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDV-4VM501Z42 | Refer to TCP-VM469Z42(VH2.0.0.2)   | H.264 MJPEG          | 1        | 2688x1520      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDB-4VM551    | Refer to TCP-VM469(VH1.0.0_F)  | H.264 MJPEG          | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDV-5VM501    | Refer to TCP-VM559(VC2.0.26.6_F)   | H.264 M-JPEG         | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| CDV-5VM501G   | Refer to TCP-VM559G(VH2.0.0.6)   | H.264 M-JPEG         | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDV-5VM501Z3  | VC2.0.26.4_F   | H.264 M-JPEG         | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:         | 1. PTZ could only support zoom and autofocus.  |                      |          |                |       |        |     |                |      |                    |                      |                     |
| CDV-5VM501Z42 | Refer to TCP-VM559Z42(VC2.0.26.6)  | H.264 MJPEG          | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDB-5VM551G   | Refer to TCP-VM559G(VH2.0.0.6)   | H.264 M-JPEG         | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| CDV-DT5       | V6.08.25-NB  | H.264 M-JPEG         | 1        | 2592x1944      | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:         | Fisheye camera with manual calibration in Crystal<br>1. Camera is unable to achieve maximum FPS. (Camera performance limitation)<br>2. Main console Flip/mirror checkbox not sync with Web interface. (NUUO server limitation) |                      |          |                |       |        |     |                |      |                    |                      |                     |
| CDV-DT951R    | Refer to CDV-DT5(V6.08.25-NB)  | H.264 M-JPEG         | 1        | 2592x1944      | 1-way | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| CDV-MD602     | refer to TCP-MZ602(VG1.0.14_F)   | H.264 M-JPEG         | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------|---|--------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| CDV-MD605     | Refer to TCP-MZ602(VG1.0.14_F)  | H.264 M-JPEG       | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| CDV-MFB2000D  | 2.03.17   | H.264 MPEG4        | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  |                     |
| Note:         | 1. Camera is unable to achieve maximum FPS. (Camera performance limitation)<br>2. The info. of stream profile display failure. (NUUO server limitation) |                    |          |                |       |        |      |                |      |                    |                      |                     |
| CDV-MV1080F-H | refer to TCP-HDVB800-H(VE2.0.16.8_F)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| CDV-P360      | refer to TCP-MH802(1.0.46)  | M-JPEG H.264       | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| CDV-P360-5    | VC2.0.26.4_F  | H.264 M-JPEG       | 1        | 2592x1944      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:         | Fisheye camera with manual calibration in Crystal   |                    |          |                |       |        |      |                |      |                    |                      |                     |
| CDV-VM2008T   | 01_C021   | H.264 H.265 M-JPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:         | 1. Not support G.726 with 8K Hz and 16 bits per sample and AMR codec. (NUUO server limitation)  |                    |          |                |       |        |      |                |      |                    |                      |                     |
| EDH-02H       | V1.0.20_F   | H.264 M-JPEG       | 1        | 720x480        | 1-way | 1/1    | Yes  | Yes            | -    | -                  | -                    |                     |
| EP-201        |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-221        |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 1/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-221DN      |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-601        |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-601HW      |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    |                     |
| EP-908        |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-908HW      |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-936        |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-936HW      |   | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-HTQ935     | V3.2.56_F   | MPEG4 M-JPEG       | 1        | 720x480        | -     | 0/0    | Yes  | Yes            | -    | -                  | -                    |                     |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware       | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------|-----------------------|--------------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| EP-Q2018H-IP  |                       | H.264<br>M-JPEG          | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-Q2018HW-IP | V1.0.8_F              | H.264<br>M-JPEG          | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    |                     |
| EP-Q2026H-IP  |                       | H.264<br>M-JPEG          | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-Q2026HW-IP |                       | H.264<br>M-JPEG          | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-Q2036H-IP  |                       | H.264<br>M-JPEG          | 1        | 720x480        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| EP-Q2036HW-IP | V1.0.46_F             | H.264<br>M-JPEG          | 1        | 720x576        | *2    | *2     | Yes  | Yes            | *2   | -                  | Yes                  |                     |
| MD-D1200      |                       | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 1/1    | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| MD-D1322      | V1.0.23.09_F          | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 2/1    | *1   | Yes            | Yes  | -                  | Yes                  |                     |
| MD-D1612      | V1.0.16_F             | H.264<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | Yes  | Yes            | -    | -                  | -                    |                     |
| MD-D3622QH    | VD1.0.12_04_F         | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes  | Yes            | Yes  | -                  | Yes                  |                     |
| SP-HP2013C-IP | onvif_v2.4.2_20150327 | M-JPEG<br>H.264          | 1        | 1280x960       | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 |                     |

Note:

1. DI & DO can't be used. (Camera Firmware issue)
2. Bitrate list and quality list may not be synchronized with camera web. (Onvif limitation)
3. 704x288 is not shown in the resolution list of the second stream. (Camera Firmware issue)
4. Auto focus is not supported. (Camera performance limitation)
- [IP+]5. Video parameter setting does not synchronize to camera web. (Camera Firmware issue)
- [NAS]6. Focus and PTZ speed setting are not supported. (NUUO server limitation)
- [NAS]7. The image of snapshot doesn't update via Snapshot to FTP function.(Camera Firmware issue)



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|----------------|--|--------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| SP-HP2020C-IP  | onvif_v2.4.0_20141027  | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 |                     |
| Note:          | 1. DI does not function. (Camera Firmware issue)<br>2. DO is unable to turn off. (Camera Firmware issue)<br>3. Bitrate list and quality list may not be synchronized with camera web. (Onvif limitation)<br>4. 704x288 is not shown in the resolution list of the second stream. (Camera Firmware issue)<br>5. Flip and mirror are not supported. (Onvif limitation)<br>6. Auto pan is not supported. (Onvif limitation)<br>7. Auto focus is not supported. (Camera performance limitation)<br>8. Hue setting is not supported. (Onvif limitation)<br>9. Video parameter setting does not synchronize to camera web. (Camera Firmware issue)<br>[NAS] 10. Focus and PTZ speed setting are not supported. (NUUO server limitation)  |              |          |                |       |        |      |                |      |                    |                      |                     |
| SP-HP2020CM-IP | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2020Q-IP  | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2030Q-IP  | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2030C-IP  | refer to SP-HP2330Q-IP(v2.3.1)   | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 4/2    | Yes  | Yes            | Yes  | -                  | Yes                  | Supported by design |
| SP-HP2030CM-IP | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                | Yes*                 | Supported by design |
| SP-HP2030SR-IP | onvif_v2.5.0   | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 8/2    | Yes* | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:          | 1. Audio via G.711 is abnormal. (Camera Firmware issue)<br>2. Bit rate list and frame rate list do not synchronize with camera web. (Camera Firmware issue)<br>3. Camera with highest quality and resolution is unable to achieve settings' frame rate. (Camera performance limitation)<br>4. Not support TALK. (Camera Firmware issue)<br>5. If video format is changed from camera web, video should be manually reconnected on server to avoid video showed black screen. (Camera Firmware issue)<br>6. Auto focus and focus near/far are not supported on linux-based NVR. (NUUO server limitation)<br>7. Snapshot will get the error image. (Camera Firmware issue)<br>8. If preset name include number and the number smaller than 0 or bigger than 255, it will set failed. (Camera Firmware issue) |              |          |                |       |        |      |                |      |                    |                      |                     |
| SP-HP2040SR-IP | Refer to SP-HP2030SR-IP(onvif_v2.5.0)  | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 8/2    | Yes* | Yes            | Yes  | -                  | Yes*                 | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name      | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|------------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| SP-HP2313C-IP    | Refer to SP-HP2013C-IP(onvif_v2.4.2_20150327)  | M-JPEG<br>H.264          | 1        | 1280x960       | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2320C-IP    | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2330C-IP    | Refer to SP-HP2020C-IP(onvif_v2.4)   | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2330Q-IP    | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2336Q-IP    | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP2620CP-IP   | Refer to SP-HP2020C-IP(onvif_v2.4.0_20141027)  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SP-HP4833-IP     | A1D-500-V6.09.44-NB  | M-JPEG<br>H.264          | 1        | 2688x1520      | 1-way | 4/2    | Yes* | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:            | 1.The camera with resolution 1920x1080 is unable to achieve 30 fps. (Camera performance limitation)              |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SP-PTIR736A-IP   | Refer to EP-Q2036HW-IP(V1.0.46_F)  | H.264<br>M-JPEG          | 1        | 720x576        | *2    | *2     | Yes  | Yes            | *2   | -                  | Yes                  | Supported by design |
| SP-PTIR736B-IP   | Refer to EP-Q2036HW-IP(V1.0.46_F)  | H.264<br>M-JPEG          | 1        | 720x576        | *2    | *2     | Yes  | Yes            | *2   | -                  | Yes                  | Supported by design |
| SP-PTIR737-IP    | V1.0.16_F  | H.264<br>M-JPEG          | 1        | 720x576        | 1-way | 0/0    | Yes  | Yes            | -    | -                  | -                    |                     |
| SP-PYIR737-LA-IP |  | H.264<br>M-JPEG          | 1        | 720x480        | 1-way | -      | Yes  | Yes            | -    | -                  | -                    | Supported by design |
| TCMA-99          |  | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | -    | -                  | -                    | Supported by design |
| TCMP-99          |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | -    | -                  | -                    | Supported by design |
| TCP-336AM        | VB1.0.40_F   | H.264<br>MPEG4<br>M-JPEG | 1        | 2032x1536      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  |                     |
| Note:            | When format is set to MPEG4, resolution is 1920*180 and quality is excellent, the maximum FPS can only reach 20. |                          |          |                |       |        |      |                |      |                    |                      |                     |
| TCP-1200AV       | V1.0.26_F  | H.264<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -    | Yes            | -    | -                  | -                    |                     |
| TCP-1300AM       | V1.0.26_F  | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way | -      | -    | Yes            | -    | -                  | -                    |                     |
| TCP-2200AM       | V1.0.30_F  | H.264<br>MJPEG           | 1        | 1600x1200      | 1-way | -      | -    | -              | Yes  | -                  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|--------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| TCP-2200AM-H | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-2700AM   | refer to CDB-720VIR-H(VE1.0.12.2_F)  | H.264 MJPEG  | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-2700AM-W | refer to CDB-720VIR-H(VE2.0.14.4_F)  | H.264 MJPEG  | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-2800AM   | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-4KU808   | VH2.0.0.12_F   | H.264 MJPEG  | 1        | 3840x2160      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:        | 1. Camera can not achieve setting frame rate when resolution is 3840x2160. (Camera performance limitation)           |              |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-670DNU   |  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-680DNU   |  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-690      |  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-690DN    |  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-690U     | V3.2.60_F  | MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    |                     |
| TCP-B365K    | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-BF108    | Refer to TCP-HDVB720-H(VE2.0.20.8)   | H264 MJPEG   | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-BF128    | Refer to TCP-HDVB720-H(VE2.0.20.8)   | H264 MJPEG   | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-BF1080   | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| Note:        | 1. (Camera issue): FPS could not reach up to 20/30.<br>2. (Known issue): The info. of stream profile display failure |              |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-BF208    | Refer to TCP-HDVB180(VE1.0.20.6_F)   | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-BF428    | Refer to CDV-4F936(VH2.0.0.8_F)  | H.264 MJPEG  | 1        | 2688x1520      | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-----------------|---|--------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| TCP-BF728IR     | refer to CDB-720VIR-H(VE2.0.14.2_F)   | H.264 MJPEG        | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-BF828IR     | refer to TCP-HDVB800-H(VE2.0.16.8_F)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-HDVB110     | Refer to TCP-HDVB720-H(VE2.0.20.8_F)  | H264 MJPEG         | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-HDVB180     | VE1.0.20.6_F  | H.264 MJPEG        | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| TCP-HDVB720P    | V1.0.20_F   | H.264 MPEG4 M-JPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| TCP-HDVB720-H   | VE2.0.20.8  | H264 MJPEG         | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:           | 1.Setting FPS have problems(Camera Firmware issue), example:<br>(1)Stream1 & Stream2 format : JPEG, when stream1's resolution decrease, stream2's fps would increase a little<br>(2)Stream1 & Stream2 format : H264, stream2's fps can't reach our setting<br>(3)When this camera's users more than 1, fps would decrease |                    |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-HDVB800     | VC1.0.18.2_F  | H.264 M-JPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | -              | Yes  | -                  | Yes                  |                     |
| TCP-HDVB800-H   | VE2.0.16.8_F  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:           | 1. Camera is unable to achieve maximum FPS.(Camera performance limitation)<br>2. Audio has noise.(Camera firmware issue)<br>3. Parameter setting will lead camera can't connect. (Camera firmware issue)  |                    |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-HDVB800-H1  | refer to TCP-HDVB800-H(VE2.0.16.8_F)  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-HDVB800Z3   | VC2.0.24.2_F  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:           | 1. PTZ only support zoom.   |                    |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-HDVB800Z4 2 | Refer to CDV-3VM800Z42  | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-HDVB801     |   | H.264 MPEG4 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | -              | Yes  | -                  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|--------------|--|--------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| TCP-HDVB835  | VJ2.0.02_F   | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:        | 1. Can not set resolution to 480x360. (Camera Firmware issue)<br>2. If audio codec is changed from camera web, video should be manually reconnected on server to avoid abnormal audio. (Camera Firmware issue)<br>3. Camera can not achieve setting frame rate when video format is MJPEG. (Camera performance limitation) |                    |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-HFB720   | VB1.0.28_F   | H.264 MPEG4 M-JPEG | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| TCP-HFB720-H | Refer to TCP-HDVB720-  | H264 MJPEG         | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-HFB1080D | 2.03.10  | H.264 MPEG4        | 1        | 1920x1080      | -     | -      | -   | Yes            | *1   | -                  | Yes                  |                     |
| Note:        | 1.The response of camera setting is slow.  |                    |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-HP1080   | VC1.0.06_F   | H.264 M-JPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| TCP-HP1080-H | refer to TCP-HDVB800-H(VE2.0.16.8_F)   | H.264 MJPEG        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-HP1080WI |  | H.264 MPEG4 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | -              | *1   | -                  | Yes                  |                     |
| TCP-HP930    |  | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-HP930U   |  | MPEG4 M-JPEG       | 1        | 720x480        | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-HVB3100D | Refer to ACM-V3103(FW 2.03.23A)  | H264 MPEG4         | 1        | 2048x1536      | 1-way | 2/1    | *2  | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| Note:        | 1.Frame rate can't meet the requirements.(Camera performance limitation)<br>2.Not support zoom and focus.  |                    |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-HVB3105D | Refer to ACM-  | H264 MPEG4         | 1        | 2048x1536      | 1-way | 1/1    | *2  | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| Note:        | 1.Frame rate can't meet the requirements.(Camera performance limitation)   |                    |          |                |       |        |     |                |      |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware                       | Video Format            | Video Ch | Max Resolution                           | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-----------------|---------------------------------------|-------------------------|----------|--|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| TCP-IPWD690     |                                       | MPEG4<br>M-JPEG         | 1        | 720x480                                  | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-IPWD700DN   | V1.0.16_F                             | H.264<br>M-JPEG         | 1        | 720x576                                  | 1-way | 1/1    | -   | Yes            | -    | -                  | -                    |                     |
| TCP-IR590-WD30  | V1.0.20_F                             | H.264<br>M-JPEG         | 1        | 720x576                                  | 1-way | 1/1    | -   | Yes            | -    | -                  | -                    |                     |
| TCP-IR590-WD50  |                                       | H.264<br>M-JPEG         | 1        | 720x576                                  | 1-way | 1/1    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-IRH5030C    | refer to TCP-MH802(1.0.46)            | M-JPEG<br>H.264         | 1        | 1600x1200                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-IRH5040C    | refer to TCP-MH802(1.0.46)            | M-JPEG<br>H.264         | 1        | 1600x1200                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-IRH5080-50  | Refer to TCP-IRH5080-70(VC2.0.26.4_F) | H.264<br>M-JPEG         | 1        | 1920x1080                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-IRH5080W-50 | Refer to TCP-IRH5080-70(VC2.0.26.4_F) | H.264<br>M-JPEG         | 1        | 1920x1080                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-IRH5080-70  | VC2.0.26.4_F                          | H.264<br>M-JPEG         | 1        | 1920x1080                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| TCP-IRH5080W-70 | Refer to TCP-IRH5080-70(VC2.0.26.4_F) | H.264<br>M-JPEG         | 1        | 1920x1080                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-IRV540      |                                       | MPEG4<br>M-JPEG         | 1        | 720x480                                  | 1-way | 0/0    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-IRV560      |                                       | MPEG4<br>M-JPEG         | 1        | 720x480                                  | 1-way | 1/1    | -   | Yes            | -    | -                  | -                    | Supported by design |
| TCP-KM465       | VK2.0.11.0_F                          | H.265<br>H.264<br>MJPEG | 1        | 2592x1520                                | 1-way | 1/1    | -   | *2             | Yes  | -                  | Yes*                 |                     |
| TCP-KZ462       | Refer to TCP-KM465(VK2.0.11.0_F)      | H.265<br>H.264<br>MJPEG | 1        | 2592x1520                                | 1-way | 1/1    | -   | *2             | Yes  | -                  | Yes*                 | Supported by design |
| TCP-M360K       | refer to TCP-HDVB800-H(VE2.0.16.8_F)  | H.264<br>MJPEG          | 1        | 1920x1080                                | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-M912DN      | V1.2.28_F                             | MPEG4<br>M-JPEG         | 1        | MPEG4:<br>640x480<br>M-JPEG:<br>1280x960 | 1-way | 2/2    | -   | Yes            | -    | -                  | -                    |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| TCP-MB602   | refer to TCP-MZ602(VG1.0.14_F)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-MB605   | refer to TCP-MZ602(VG1.0.14_F)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-MB685   | refer to TCP-MZ602(VG1.0.14_F)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-MH802   | 1.0.46  | M-JPEG<br>H.264          | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | 1. Framerate may be incorrect displayed with MJPEG format. (Camera firmware issue)<br>2. Camera is unable to achieve maximum FPS. (Camera performance limitation)   |                          |          |                |       |        |      |                |      |                    |                      |                     |
| TCP-MH859   | Refer to TCP-VM559(VG2.0.26.6_F)  | H.264<br>M-JPEG          | 1        | 2592x1944      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-MZ602   | VG1.0.14_F  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | Camera is unable to achieve maximum FPS. (Camera performance limitaiton)  |                          |          |                |       |        |      |                |      |                    |                      |                     |
| TCP-MZ605   | refer to TCP-MZ602 (FW: VG1.0.14)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-VM2008T | 01_C021   | H.264<br>H.265<br>M-JPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1. Not support G.726 with 8K Hz and 16 bits per sample and AMR codec. (NUUO server limitation)  |                          |          |                |       |        |      |                |      |                    |                      |                     |
| TCP-VM201   |   | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 0/0    | -    | Yes            | -    | -                  | Yes                  | Supported by design |
| TCP-VM2210  | 3.1.0.0   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/0    | Yes* | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1. Not support talk function due to camera not support two-way audio via onvif protocol.(Camera Firmware issue)<br>2. Camera with highest resolution via MJPEG or MPEG4 is unable to achieve maximum frame rate. (Camera performance limitation)<br>3. Bit rate list does not synchronize with camera web. (Camera Firmware issue)<br>4. The image of stream 2 from camera is broken. (Camera Firmware issue) |                          |          |                |       |        |      |                |      |                    |                      |                     |
| TCP-VM359   | VC1.0.16_F  | H.264<br>M-JPEG          | 1        | 2048x1536      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes                  |                     |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format  | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|--------------|--|---------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| TCP-VM469    | VH1.0.0_F  | H.264 / MJPEG | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:        | 1. Resolution list & frame rate list may not sync with web.(Camera Firmware issue)   |               |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-VM469Z42 | VH2.0.0.2  | H.264 MJPEG   | 1        | 2688x1520      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:        | 1. Camera is unable to achieve high FPS. (Camera performance limitation)<br>2. Sever resolution list is not same as web resolution list. (Camera Firmware issue) |               |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-VM501    | refer to TCP-MH802(1.0.46)   | M-JPEG H.264  | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| TCP-VM559    | VC2.0.26.6_F   | H.264 M-JPEG  | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-VM559G   | VH2.0.0.6_F  | H.264 M-JPEG  | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:        | 1. The camera with highest quality and MJPEG format is unable to use. (Camera performance limitation)  |               |          |                |       |        |     |                |      |                    |                      |                     |
| TCP-VM559Z3  | refer to CDV-5VM501Z3(V C2.0.26.4_F)   | H.264 M-JPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| TCP-VM559Z42 | VC2.0.26.6_F   | H.264 MJPEG   | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 |                     |
| WB-8211SD    |  | MPEG4 M-JPEG  | 1        | 720x480        | 1-way | 2/4    | -   | Yes            | -    | -                  | Yes                  | Supported by design |
| WB-8211SDU   |  | MPEG4 M-JPEG  | 1        | 720x480        | 1-way | 2/4    | -   | Yes            | -    | -                  | Yes                  | Supported by design |
| WB-8411      |  | MPEG4 M-JPEG  | 4        | 720x480        | 1-way | 4/1    | -   | Yes            | -    | -                  | Yes                  | Supported by design |
| WB-8412      | V2.2.26_F  | MPEG4 M-JPEG  | 4        | 688x448        | 1-way | 4/4    | Yes | Yes            | -    | -                  | Yes                  |                     |
| WB-H811      | V1.0.44_F  | M-JPEG H.264  | 1        | 720x576        | 1-way | 2/2    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:        | Resolution can't set to 4CIF.  |               |          |                |       |        |     |                |      |                    |                      |                     |
| WB-H814      | V1.0.82_F  | H.264 M-JPEG  | 4        | 720x576        | 1-way | 4/4    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:        | 1. Support dual mode only. (Camera firmware issue)<br>2. Resolution can not be set correctly. (Camera firmware issue)  |               |          |                |       |        |     |                |      |                    |                      |                     |



- : not available on camera  
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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware  | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|--|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| FC-348-NTSC   | BU 1.2   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:         | 1. When bitrate set higher than 1Mbps, the RTSP connection is unstable.<br>2. Sometime we fail to change the encoding setting after the camera connected for a long time. The setting displays at web client and onvif interface will change but actually not.<br>3. Can't get the I/O status by Onvif interface<br>4. Can't use camera search function because of onvif command timeout.<br>5. Can't use auto detection because of Onvif command timeout. |                         |          |                |       |        |     |                |      |                      |                     |
| FC-309        | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-313        | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-334        | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-334S       | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-324        | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-324S       | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-363        | Refer to FC-348-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-618-R-NTSC | BU 1.2   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | *2     | Yes | *2             | *2   | Yes*                 |                     |
| Note:         | 1. When bitrate set higher than 1Mbps, the RTSP connection is unstable.<br>2. Sometime we fail to change the encoding setting after the camera connected for a long time. The setting displays at web client and onvif interface will change but actually not.<br>3. Can't get the I/O status by Onvif interface<br>4. Can't use camera search function because of onvif command timeout.<br>5. Can't use auto detection because of Onvif command timeout. |                         |          |                |       |        |     |                |      |                      |                     |
| FC-690S       | Refer to FC-618-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-669S       | Refer to FC-618-NTSC(BU 1.2)   | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware              | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|------------------------------|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| FC-645S     | Refer to FC-618-NTSC(BU 1.2) | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| FC-632S     | Refer to FC-618-NTSC(BU 1.2) | H.264<br>MJPEG<br>MPEG4 | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | Yes*                 | Supported by design |

- : not available on camera  
 \*1: not available on software  
 \*2: not test on software



**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name       | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------------|---|--------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| ACD-3VM501        | refer to ACDV-3VM501  | H.264 M-JPEG       | 1        | 1600x1200      | -     | 1/1    | -   | Yes            | Yes  | -                  | -                    | Supported by design |
| ACDV-3VM501       |   | H.264 M-JPEG       | 1        | 1600x1200      | -     | 1/1    | -   | Yes            | Yes  | -                  | -                    | Supported by design |
| AEP-Q2018HW-IP    |   | H.264 M-JPEG       | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| AEP-Q2026HW-IP    |   | H.264 M-JPEG       | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| AEP-Q2036HW-IP    |   | H.264 M-JPEG       | 1        | 720x480        | -     | -      | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| ASP-PTIR737-IP    |   | H.264 M-JPEG       | 1        | 720x576        | -     | -      | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| ASP-PTIR737-LA-IP |   | H.264 M-JPEG       | 1        | 720x576        | -     | -      | Yes | Yes            | Yes  | -                  | -                    | Supported by design |
| ATCP-IRH5030C     |   | H.264 M-JPEG       | 1        | 1600x1200      | -     | 1/1    | -   | Yes            | Yes  | -                  | -                    | Supported by design |
| ATCP-IRH5040C     |   | H.264 M-JPEG       | 1        | 1600x1200      | -     | 1/1    | -   | Yes            | Yes  | -                  | -                    | Supported by design |
| ATCP-MH802        |   | H.264 M-JPEG       | 1        | 1600x1200      | -     | 1/1    | -   | Yes            | Yes  | -                  | -                    | Supported by design |
| Note:             | ATCP-MH802DN, ATCP-MH802DN/WI and ATCP-MH802WI are compatible with ACTP-MH802 |                    |          |                |       |        |     |                |      |                    |                      |                     |
| ATCP-VM501        |   | H.264 M-JPEG       | 1        | 1600x1200      | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| AWB-H811          |   | H.264 M-JPEG       | 1        | 720x480        | -     | 2/2    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| AWB-H814          |   | H.264 M-JPEG       | 1        | 720x576        | -     | 4/4    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| B0100             |   | H.264 M-JPEG MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| B0202             | V3.2.0.0  | H.264 M-JPEG MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| B1100             |   | H.264 M-JPEG MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| C1100             |   | H.264 M-JPEG MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| C1100-W           |   | H.264 M-JPEG MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| C2002             | Refer to C2200  | H.264 M-JPEG MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| C2002-W           | Refer to C2200-W  | H.264 M-JPEG MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| C2100       |   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| C2200       | Refer to B0202  | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| C2200-W     | Refer to B0202  | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| D0100       |   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| D1100       |   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| D2000-FD3   | Refer to M4202-DB03   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| D2000-VD3   | Refer to M4202-DB02   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| D2000-VP2   | Refer to M7202-DB03   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| D2100       |   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FBU-200LWD  | AgWT820012<br>2N06 V32<br>1401213F  | H.264                    | 1        | 1920x1080      | 1-way | 0/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | (Camera FW issue): Camera not support DI.<br>(Camera FW issue): Camera snapshot function failed.<br>(Known issue): It is probable that bitrate per second of low/minimum stream is unable to achieve 500kbps/100kbps under D1, SXGA resolution. |                          |          |                |       |        |     |                |      |                    |                      |                     |
| FBU-201LWD  | Refer to FBU-200LWD (FW AgWT820012 2N06 V32 1401213F)   | H.264                    | 1        | 1920x1080      | 1-way | 0/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FBU-300LWD  | refer to FVD-300LWD(Ag WT8300036N 06 V32 1401214F)  | H.264                    | 1        | 2048x1536      | 1-way | *2     | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FBU-301LWD  | refer to FVD-300LWD(Ag WT8300036N 06 V32 1401214F)  | H.264                    | 1        | 2048x1536      | 1-way | *2     | Yes | Yes            | Yes  | -                  | Yes                  |                     |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name        | Tested Firmware                              | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|--------------------|--|-------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| <b>FBS-1300 BX</b> | AgWT8130104N20_1405282B                      | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| <b>FBS-1300BL</b>  | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBS-1300 ID</b> | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBS-1300IDR</b> | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBS-1300MID</b> | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBS-1300MVD</b> | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBS-1300VD</b>  | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBS-1300VDR</b> | refer to FBS-1300BX(AgWT8130104N20_1405282B) | H.264                   | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| <b>FBX-200</b>     |  | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                                       | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| FBX-200CL   | Refer to FBU-200LWD (FW AgWT820012 2N06 V32 1401213F) | H.264                   | 1        | 1920x1080      | 1-way | 0/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FBX-200LWD  | Refer to FBU-200LWD (FW AgWT820012 2N06 V32 1401213F) | H.264                   | 1        | 1920x1080      | 1-way | 0/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FBX-300LWD  | refer to FVD-300LWD(Ag WT8300036N 06 V32 1401214F)    | H.264                   | 1        | 2048x1536      | 1-way | *2     | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FBX-300WD   |   | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |
| FDM-200     |   | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |
| FDM-200LWD  | Refer to FBU-200LWD (FW AgWT820012 2N06 V32 1401213F) | H.264                   | 1        | 1920x1080      | 1-way | 0/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FDM-300LWD  | refer to FVD-300LWD(Ag WT8300036N 06 V32 1401214F)    | H.264                   | 1        | 2048x1536      | 1-way | *2     | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| FDM-300WD   |   | H.264<br>MPEG4<br>MJPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |
| FVD-200     |   | H.264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |
| FVD-200LWD  | Refer to FBU-200LWD (FW AgWT820012 2N06 V32 1401213F) | H.264                   | 1        | 1920x1080      | 1-way | 0/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| FVD-200LWD  | Refer to FDM-200  | H.264<br>MPEG4<br>MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |
| FVD-300LWD  | AgWT830003<br>6N06 V32<br>1401214F  | H.264                    | 1        | 2048x1536      | 1-way | *2     | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | (Camera FW issue) Camera replies no IO status.<br>(Camera FW issue): Camera snapshot function failed.<br>(Camera FW issue): FPS could not reach up to user setting by TCP protocol connection.<br>(Known issue): It is probable that bitrate per second of low/minimum stream is unable to achieve 500bps/100bps under D1, SXGA, 3M resolution. |                          |          |                |       |        |     |                |      |                    |                      |                     |
| FVD-300WD   |   | H.264<br>MPEG4<br>MJPEG  | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -                  | Yes                  | Supported by design |
| GE-100-VS   |   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPB-1080BL  | Refer to IPD-1080CD<br>(VC1.0.22.6_TG)  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPB-1080BM  | Refer to IPD-1080CD<br>(VC1.0.22.6_TG)  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPB-1080E   | VE1.0.14.18_TG  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | 1. Audio has noise. (Camera firmware issue)   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IPB-1080F   | refer to IPB-1080E(VE1.0.14.18_TG)  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPB-1080F28 | VE1.0.22.6_TG   | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1. Streaming can not connect via RTSP over HTTP. (Camera firmware issue)<br>2. The second stream's frame rate list can not follow the adjusting rule to the main stream's resolution and FPS. (Camera firmware limitation)<br>3. Camera is unable to achieve maximum FPS. (Camera performance issue)  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| IPB-1080WDR | Refer to IPD-1080WDR(Forenix_rootfs_VG1.0.20_TG_20150129_101057)  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| IPB-4065BM  | VK1.0.13.3_TG   | H.264<br>H.265<br>MJPEG | 1        | 2592x1520      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1. Due to camera web restriction, some frame rate cannot be set. (Camera Firmware issue)  |                         |          |                |       |        |     |                |      |                    |                      |                     |
| IPB-8000BM  | VH1.0.0.11_TG   | H.264<br>MJPEG          | 1        | 3840x2160      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1. Camera cannot achieve maximum FPS with high resolution and bitrate. (Camera performance limitation)<br>2. Audio has noise. (Camera Firmware issue)   |                         |          |                |       |        |     |                |      |                    |                      |                     |
| IPD-1080CD  | VC1.0.22.6_TG   | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| IPD-1080E   | refer to IPB-1080E(VE1.0.14.18_TG)  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPD-1080MF  | refer to IPB-1080E(VE1.0.14.18_TG)  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPD-1080KF  | refer to IPB-1080E(VE1.0.14.18_TG)  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPD-1080WDR | Forenix_rootfs_VG1.0.20_TG_20150129_101057  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:       | 1. Stream1 and stream2 framerate list is not as same as web. (Camera Firmware issue)<br>2. in 1080p HD 12bits 60fps(True WDR) mode, stream2 and stream3 can not connect, and can not get parameters.(Camera Firmware issue) |                         |          |                |       |        |     |                |      |                    |                      |                     |
| IPD-4065CD  | Refer to IPB-4065BM(VK1.0.13.3_TG)  | H.264<br>H.265<br>MJPEG | 1        | 2592x1520      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPD-8000CD  | Refer to IPB-8000BM(VH1.0.0.11_TG)  | H.264<br>MJPEG          | 1        | 3840x2160      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPM-1080F   | refer to IPB-1080E(VE1.0.14.18_TG)  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format      | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|-------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| IPM-1080RF  | refer to IPB-1080E(VE1.0.14.18_TG)                               | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPT-1080F   | refer to IPB-1080E(VE1.0.14.18_TG)                               | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPV-1080CD  | Refer to IPD-1080CD (VC1.0.22.6_TG)                              | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPV-1080E   | refer to IPB-1080E(VE1.0.14.18_TG)                               | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPV-1080F   | refer to IPB-1080E(VE1.0.14.18_TG)                               | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPV-4065CD  | Refer to IPB-4065BM(VK1.0.13.3_TG)                               | H.264 H.265 MJPEG | 1        | 2592x1520      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPV-1080WDR | Refer to IPD-1080WDR(Forenix_rootfs_VG1.0.20_TG_20150129_101057) | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPV-8000CD  | Refer to IPB-8000BM(VH1.0.0.11_TG)                               | H.264 MJPEG       | 1        | 3840x2160      | 2-way | 1/1    | -   | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPX-1080DN  | Refer to IPD-1080CD (VC1.0.22.6_TG)                              | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| IPX-1080E   | refer to IPB-1080E(VE1.0.14.18_TG)                               | H.264 MJPEG       | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|-------------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| IPX-1080WDR | Refer to IPD-1080WDR(Forenix_rootfs_VG1.0.20_TG_20150129_101057)  | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPX-4065DN  | Refer to IPB-4065BM(VK1.0.13.3_TG)  | H.264<br>H.265<br>MJPEG | 1        | 2592x1520      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPX-8000DN  | Refer to IPB-8000BM(VH1.0.0.11_TG)  | H.264<br>MJPEG          | 1        | 3840x2160      | 1-way | 1/1    | -    | Yes            | Yes  | -                  | Yes*                 | Supported by design |
| IPZB-1000R  | 3.0.0.4   | H.264<br>MJPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/0    | Yes* | Yes            | Yes  | Yes                | Yes*                 |                     |
| Note:       | 1. Talk function can't be used. (Camera Firmware issue)<br>2. DI can't be trigger. (Camera Firmware issue)<br>3. Motion can't be trigger. (Camera Firmware issue)<br>4. Frame rate, quality, and bitrate can't not synchronize with web. (Camera Firmware issue)<br>5. MJPEG quality can't be set. (Camera Firmware issue)<br>6. Quality range can not synchronize with web. (Camera Firmware issue)<br>7. Bitrate list can not synchronize with web. (Camera Firmware issue)<br>8. In H.264 & MPEG-4, bitrate can not achieve setting value. (Camera performance limitation)<br>9. In MJPEG & MPEG-4, framerate can not achieve setting value. (Camera performance limitation) |                         |          |                |       |        |      |                |      |                    |                      |                     |
| ISPD-2018   | Refer to ISPD-2020(VC1.0.301204_TG)   | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 4/1    | Yes* | Yes            | -    | *1                 | Yes*                 | Supported by design |
| ISPD-2020   | VC1.0.301204_TG   | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 4/1    | Yes* | Yes            | -    | *1                 | Yes*                 |                     |
| Note:       | 1. Not support Talk. (Camera Firmware issue)<br>2. Always trigger input-0 if alarm 1~4 has been triggered. (Camera Firmware issue)<br>3. Audio was broken with G.726. (Camera Firmware issue)<br>4. [NAS]Focus can't be used. (NUUO server limitation)<br>5. Not support camera search. (NUUO server limitation)<br>6. Not support auto detection. (NUUO server limitation)   |                         |          |                |       |        |      |                |      |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|----------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| ISPDIII-3010   | 0.1.4960M  | H.264<br>MJPEG           | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes*                 |                     |
| Note:          | ISPDIII-3010:<br>1. Fps and resolution list is not synchronized with the camera web due to onvif protocol mechanism. (Camera limitation issue)<br>2. Talk(audio out) are not supported due to there is no implementation mechanism from sdk document. (Camera issue)   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| ISPD II-1312WD | AgWT813131<br>2N20_14041<br>85F  | H.264                    | 1        | 1280x1024      | -     | -      | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:          | 1. Dual stream with main stream resolution SXGA, SXVGA, D1 is unable to achieve 500k/100k bps. (Camera performance limitation)<br>2. Camera with quality over 8192 is unable to achieve maximum FPS ( Camera performance limitation)<br>3. Camera pan/tilt periodic moves per 30 seconds/2 minutes. After periodic moving, camera can't tilt for 1 minute. |                          |          |                |       |        |     |                |      |                    |                      |                     |
| ISPD II-3018WD | AgWT830301<br>8N20_14041<br>85F  | H.264                    | 1        | 2048x1536      | -     | -      | Yes | Yes            | Yes  | -                  | Yes                  |                     |
| Note:          | 1. Dual stream with main stream resolution 3M, SXGA, D1 is unable to achieve 500k/100k bps. (Camera performance limitation)<br>2. Camera with quality over 8192 is unable to achieve maximum FPS. ( Camera firmware issue)   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| M0202-BH01     | Refer to B0202   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| M0202-BH02     | Refer to B0202   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| M0202-BH03     | Refer to B0202   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| M4202-DB02     | Refer to B0202   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| M4202-DB03     | Refer to B0202   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| M7202-DB03     | Refer to B0202   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| NPB-720        | refer to NPB-720BM   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                              | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| NPB-720A    | refer to NPB-720BM                           | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| NPB-720BM   | VB1.0.26_TG                                  | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note        | FW issue cannot support UPnP and autodetect. |                          |          |                |       |        |     |                |      |                    |                      |                     |
| NPB-720U    | refer to NPB-720BM                           | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| NPD-720K    | refer to NPB-720BM                           | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| NPD-720R    | refer to NPB-720BM                           | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | -     | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| T2000-FB1   | Refer to M0202-BH01                          | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| T2000-FB2   | Refer to M0202-BH02                          | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| T2000-VB3   | Refer to M0202-BH03                          | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| VQ2100      |  | MJPEG<br>MPEG4<br>H.264  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| VQ2200      |  | MJPEG<br>MPEG4<br>H.264  | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| VQ2210C     |  | MJPEG<br>MPEG4<br>H.264  | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |
| VQ2300      |  | MJPEG<br>MPEG4<br>H.264  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  | Supported by design |
| VQ2310      |  | MJPEG<br>MPEG4<br>H.264  | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | -                  | Yes                  | Supported by design |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name     | Tested Firmware  | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-----------------|------------------|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| TVC-M1245E-2M-P | V4.0.g           | H264<br>MPEG4  | 1        | 1280x690       | -     | -      | -   | Yes            | Yes  | Yes                  |         |
| TVC-MP2B-S      | e20120223B<br>NS | H264<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |



GLOBAL NETWORK SECURITY

- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal  
 For PTZ:  
 Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| A3263LE     | 4.8.26.17   | H264<br>M-JPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | 1. Can not switch video format (Camera issue)<br>2. The maximum FPS can only achieve 25 FPS (Camera issue)<br>3. Camera need more time to recover while change video format and resolution (Camera issue)<br>4. Can not delete preset point via RS485 (Camera issue)  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| GNS-A3101LE | 2.14.09.16  | H.264<br>M-JPEG          | 1        | 1280x720       | -     | -      | -   | Yes            | -    | -                  | Yes*                 |                     |
| Note:       | 1. Camera search and autodetect do not function for this camera. (Camera Firmware issue)<br>2. The camera does not support functions including DI, DO, PTZ, audio and talk. (Camera Firmware issue)<br>3. The frame rate range is different from what the camera web shows. (Camera Firmware issue)<br>4. Resolution 704x480 cannot be set. (Camera Firmware issue)<br>5. Video format cannot be switched. (Camera Firmware issue)<br>6. The video parameters may not be synchronized with actual streaming. (Camera Firmware issue)<br>7. Hue setting is not supported. (ONVIF limitation) |                          |          |                |       |        |     |                |      |                    |                      |                     |
| GNS-A3253LE | 4.8.26.24   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | 1. Can not switch video format(Camera firmware issue)<br>2. Support at most 25 FPS in 1st stream(Camera firmware issue)<br>3. Camera is unable to achieve maximum FPS(Camera firmware issue)<br>4. Can't listen to the audio of camera.(Camera firmware issue)<br>5. The snapshot function can't be work.(Camera firmware issue)<br>6. The FPS of stream2 always be 25 in MJPEG.(Camera firmware issue)<br>7. The autodetection and seach function can't be work.(Camera firmware issue)<br>8. The parameter can't be set under resolution 704x480 or 704x576.                              |                          |          |                |       |        |     |                |      |                    |                      |                     |
| GNS-A3102LE | Refer to<br>GNS-A4102(4.11.23.24F)  | H.264<br>M-JPEG          | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |
| GNS-A4102   | 4.11.23.24F   | H.264<br>M-JPEG          | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | 1. Can not switch video format (Camera issue)<br>2. The maximum FPS can only achieve 25 FPS (Camera issue)<br>3. Can't listen to the audio of camera (Camera issue)   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| GNS-B3202LE | v1.8.0801.10<br>01.101.0.66.<br>1.0   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | 1. Some bitrate can't be set. (Onvif limitation)  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| GNS-C1201L  | V1.0.40   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                  | Yes                  |                     |
| Note:       | 1. Audio only support G7.11. (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                    |                      |                     |



|                    |   |                          |   |           |       |     |   |     |     |   |     |  |
|--------------------|---|--------------------------|---|-----------|-------|-----|---|-----|-----|---|-----|--|
| <b>GNS-C3203LE</b> | 2.3.3073.74   | H.264<br>M-JPEG<br>MPEG4 | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | - | Yes |  |
| Note:              | <ol style="list-style-type: none"> <li>1. DO cannot be triggered. (Camera firmware issue)</li> <li>2. Motion cannot be triggered when video format is MJPEG. (Camera firmware issue)</li> <li>3. If change mode to corridor 90 or 270, the information of stream 3 is incorrect and stream 3 can not connect. (Camera firmware issue)</li> <li>4. Camera is unable to achieve FPS when 3 streams are connecting. (Camera performance limitation)</li> </ol> |                          |   |           |       |     |   |     |     |   |     |  |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name   | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| GCI-0735P     |   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 4/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| GCI-C0745P    | 720110412N<br>S   | H.264<br>M-JPEG          | 1        | 720x576        | 1-way | 4/1    | Yes | Yes            | Yes  | Yes                  |                     |
| GCI-G1536F    | gr20140530<br>NSA   | H.264,<br>MJPEG          | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:         | Fisheye camera  |                          |          |                |       |        |     |                |      |                      |                     |
| GCI-H0503B    | 720110422N<br>S   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| GCI-H0522V    |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-H0602B    |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-H2505B    | Refer to GCI-<br>K2505B(gr20<br>130417NSX)  | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-K0322V    | 720110413N<br>S   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| GCI-K0503B    |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-K0512W    |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-K0523T    |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:         | With HW restrictions, the video @ H.264 with TCP protocol is not smooth in the conditions of high resolution, fps and bitrate. We recommend to lower bitrate to 4000. |                          |          |                |       |        |     |                |      |                      |                     |
| GCI-K0589T(H) | Refer to GCI-<br>K1586V(gr20<br>130621NSA)  | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| GCI-K0779P    | gr20130621<br>NSA   | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |                     |
| GCI-K1523VS   | Refer to GCI-<br>K2505B(gr20<br>130417NSX)  | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-K1526V    | gr20120522<br>NSA   | MJPEG,<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| GCI-K1526VS   | Refer to GCI-<br>K2505B(gr20<br>130417NSX)  | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| GCI-K1585V    | Refer to GCI-<br>K1586V(gr20<br>130621NSA)  | H.264,<br>MJPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name       | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------------|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| <b>GCI-K1586V</b> | gr20130621<br>NSA  | H.264,<br>MJPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note:             | FW: gr20130621NAS, gr20130417NSX<br>1. Audio has noise when camera setting is high.<br>2. Get parameter will ailed when camera setting is high.<br>3. GCI-K1586V, GCI-K0589T(H), GCI-K1585V PTZ only support zoom and focus. |                 |          |                |       |        |     |                |      |                      |         |
| <b>GCI-K1812W</b> | gr20120522<br>NSA  | H.264           | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |         |
| <b>GCI-K2505B</b> | gr20130417<br>NSX  | H.264,<br>MJPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |         |
| Note:             | Framerate setting will failed when choosing TV system Autoiris WDR25fps, WDR 25fps and WDR 30fps.  |                 |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware                            | Video Format      | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|---|--|-------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| <b>GDN-D1300V</b>   | AS65_ALL001_V0.01.09                       | H.264             | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| Note: Not support 16 KHz sampling rate audio in.  |  |                   |          |                |       |        |     |                |      |                      |         |
| <b>GDN-DV1300IR</b>   | Refer to GDN-D1300V(AS65_ALL001_V0.01.09)  | H.264             | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-D1300IR</b>  | Refer to GDN-D1300V(AS65_ALL001_V0.01.09)  | H.264             | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-D2300V</b>   | Refer to GDN-H2300IR(AS65_ALL001_V0.02.04) | H.264             | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-D3200V</b>   | AS65_ALL001_V0.02.00                       | H.264             | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-D3200IR</b>  | Refer to GDN-D3200V(AS65_ALL001_V0.02.00)  | H.264             | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-F1300V</b>   | Refer to GDN-D1300V(AS65_ALL001_V0.01.09)  | H.264             | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-F2300</b>  | Refer to GDN-H2300IR(AS65_ALL001_V0.02.04) | H.264             | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-H1300IR</b>  | Refer to GDN-D1300V(AS65_ALL001_V0.01.09)  | H.264             | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>GDN-H2300IR</b>  | AS65_ALL001_V0.02.04                       | H.264             | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| <b>Generic</b>  | AS65_ALL001_V1.00.07                       | H.264 MJPEG MPEG4 | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| Note: 1. Camera will be rebooted (60 seconds) after parameter configuration. (Camera performance limitation)<br>2. 16 KHz sampling rate audio in are not supported.<br>3. Camera search is not supported. (Camera firmware issue)<br>4. The camera setting will be failed if choose the value "BOTH".(Camera firmware issue)<br>5. Camera cannot be connected when 2nd resolution set to 854*480. (Camera firmware issue)<br>6. The default value of brightness should be 50. (Camera firmware issue) |  |                   |          |                |       |        |     |                |      |                      |         |
| <b>GDN-H3200IR</b>  | Refer to GDN-D3200V(AS65_ALL001_V0.02.00)  | H.264             | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |



New-platform models: FW 20100628 is compatible  
 Old-platform models: only FW 20100320 is acceptable  
 - : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name         | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DS-2CD2012-I        | v5.0.2 build130805   | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:               | 1. DS-2CD2012-I FW issue: not support PTZ function but web setting can enable this option.<br>2. Sub stream resolution can't bigger than Main stream resolution.   |              |          |                |       |        |     |                |      |                      |                     |
| DS-2CD2032-I        | V5.3.0 build 150513  | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 |                     |
| Note:               | 1.Frame rate will display too high. (NUUO server limitation)   |              |          |                |       |        |     |                |      |                      |                     |
| DS-2CS2132F-1-2.8mm | Refer to DS-2CD2032-I(V5.3.0)  | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 | Supported by design |
| DS-2CD2112-(I)      | Refer to DS-2CD2012-I(v5.0.2 build130805)  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2212-I3       | Refer to DS-2CD2012-I(v5.0.2 build130805)  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2212-I5       | Refer to DS-2CD2012-I(v5.0.2 build130805)  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2312-I        | Refer to DS-2CD2012-I(v5.0.2 build130805)  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2612F-I       | Refer to DS-2CD2012-I(v5.0.2 build130805)  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2612F-IS      | v5.0.2 build130805   | H264         | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DS-2CD2632F-IS      | Refer to DS-2CD2732F-IS(v5.0.2 build130805)  | H264         | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2712F-I       | Refer to DS-2CD2012-I(v5.0.2 build130805)  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2712F-IS      | Refer to DS-2CD2612F-IS(v5.0.2 build130805)  | H264         | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DS-2CD2732F-IS      | v5.0.2 build130805   | H264         | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| DS-2CD4065F-P       | V5.3.4 build 150812  | H.264        | 1        | 3072x2048      | *2    | 1/1    | *2  | *2             | *2   | Yes*                 |                     |
| Note:               | 1.Bitrate list does not sync with camera web. (Camera Firmware issue)<br>2.When we name the preset point, preset point label will change to arabic number. (Camera Firmware issue)<br>3.Camera can't change to 1920x1080 with 3072x1728. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                     |



New-platform models: FW 20100628 is compatible  
 Old-platform models: only FW 20100320 is acceptable  
 - : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name        | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------------|---|--------------|----------|----------------|-------|---------|-----|----------------|------|----------------------|---------------------|
| DS-2CD4124F-IZ     | Refer to DS-2CD4224F-IZH(V5.3.5 build 151218)   | H.264 MPEG4  | 1        | 1920x1080      | -     | -       | -   | *2             | *2   | Yes*                 | Support by design   |
| DS-2CD4125FWD-IZ   | Refer to DS-2CD4A25FW D-IZHS(V5.3.5 build 151218)   | H.264        | 1        | 1920x1080      | *2    | *2      | Yes | *2             | *2   | Yes*                 | Support by design   |
| DS-2CD4132FWD-IZ   | Refer to DS-2CD4332FWD (V5.3.0)   | H.264 MPEG4  | 1        | 2048x1536      | *2    | 2/2(*2) | *2  | *2             | *2   | Yes*                 |                     |
| DS-2CD4224F-IZH    | V5.3.5 build 151218   | H.264 MPEG4  | 1        | 1920x1080      | -     | -       | -   | *2             | *2   | Yes*                 |                     |
| Note:              | 1. Bitrate list can not synchronized with camera web. (Camera Firmware issue)<br>2. The stream 2 or 3 in camera with higher resolution via MJPEG is unable to achieve settings fps. (Camera performance limitation)<br>3. The bitrate of stream 2 or 3 in camera with highest resolution via MJPEG is higher than settings bitrate. (Camera performance limitation) |              |          |                |       |         |     |                |      |                      |                     |
| DS-2CD4332FWD      | V5.3.0  | H.264 MPEG4  | 1        | 2048x1536      | *2    | 2/2(*2) | *2  | *2             | *2   | Yes*                 |                     |
| Note:              | 1. Bitrate list is not synchronized with web. (Camera Firmware issue)   |              |          |                |       |         |     |                |      |                      |                     |
| DS-2CD4A25FWD-IZ   | V5.3.0 build 150617   | H.264        | 1        | 1920x1080      | -     | -       | Yes | *2             | *2   | Yes*                 |                     |
| Note:              | PTZ only support zoom & focus.<br>1. Bitrate lists can not sync with web. (Camera Firmware Issue)   |              |          |                |       |         |     |                |      |                      |                     |
| DS-2CD4A25FWD-IZHS | V5.3.5 build 151218   | H.264        | 1        | 1920x1080      | *2    | *2      | *2  | *2             | *2   | Yes*                 |                     |
| Note:              | 1. Bitrate list can not sync with web. (Camera Firmware issue)<br>2. Bitrate is unable to achieve setting value. (Camera performance limitation)  |              |          |                |       |         |     |                |      |                      |                     |
| DS-2CD4565F-IZH    | Refer to DS-2CD4065F-P(V5.3.4)  | H.264        | 1        | 3072x2048      | *2    | 1/1     | *2  | *2             | *2   | Yes*                 | Supported by design |
| DS-2CD4625FWD-IZS  | V5.3.4  | H.264        | 1        | 1920x1080      | *2    | *2      | *2  | *2             | *2   | Yes*                 |                     |
| Note:              | 1. Bitrate list can not sync with web. (Camera Firmware issue)  |              |          |                |       |         |     |                |      |                      |                     |
| DS-2CD6026FHWD-A   | V5.1.0 build 131202   | H.264 MPEG4  | 1        | 1920x1080      | *2    | *2      | *2  | *2             | *2   | Yes*                 |                     |
| Note:              | 1. Framerate and bitrate can not achieve to maximum. (Camera performance limitation)<br>2. OSD will display 1920x1088 in MPEG4 1920x1080. (Camera Firmware issue)<br>3. Can't set frame rate to 50 fps. (Camera Firmware issue)   |              |          |                |       |         |     |                |      |                      |                     |



New-platform models: FW 20100628 is compatible  
 Old-platform models: only FW 20100320 is acceptable  
 - : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware  | Video Format      | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|-----------------|--|-------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| DS-2CD702NF-E   |  | H.264             | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD702PF-E   |  | H.264             | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD712NF-E   |  | H.264             | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD712PF-E   |  | H.264             | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD7133-E    | V2.0 100628  | H.264             | 1        | 640x480        | -     | -      | -   | Yes            | -    | -                    |                        |
| DS-2CD7153-E    | v5.0.8 build 130930  | H.264 MPEG4       | 1        | 1600x1200      | -     | -      | -   | Yes            | Yes  | Yes                  |                        |
| Note:           | The range of framerate is not sync. with web when resolution is 1600x1200  |                   |          |                |       |        |     |                |      |                      |                        |
| DS-2CD7253F-EIZ | V5.0.2 Build 130709  | H.264 MPEG4       | 1        | 1600x1200      | -     | -      | Yes | Yes            | Yes  | Yes                  |                        |
| Note:           | 1. Only support zoom in/out in the PTZ-control.<br>2. The range of framerate is not sync. with web when resolution is 1600x1200 and 1600x912.<br>3. Sub stream's format must be the same as main stream's except MJPEG.<br>4. UPnP Search can not get a valid mac address. |                   |          |                |       |        |     |                |      |                      |                        |
| DS-2CD732F-E    | 20100320   | H.264             | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                        |
| DS-2CD733F-E    | V2.0 100716  | H.264             | 1        | 640x480        | 1-way | 2/2    | Yes | Yes            | -    | -                    | Tested by manufacturer |
| DS-2CD752MF-E   |  | H.264             | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| DS-2CD752MF-FB  | V2.0 110426  | H.264             | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                        |
| Note:           | DS-2CD752MF-FB PTZ can't test on RS-485  |                   |          |                |       |        |     |                |      |                      |                        |
| DS-2CD753F-E    | V2.0 100628  | H.264             | 1        | 1600x1200      | 1-way | 2/2    | Yes | Yes            | -    | -                    |                        |
| DS-2CD754F-E    | Refer to 2CD754FWD-EI  | H.264 MPEG4       | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| DS-2CD754F-EI   | Refer to 2CD754FWD-EI  | H.264 MPEG4       | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| DS-2CD754FWD-EI | V3.2 120105  | H.264 MPEG4 MJPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | YES  | Yes                  |                        |
| DS-2CD762MF-FB  | 20100320   | H.264             | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                        |



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 \*1: not available on software  
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**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|-----------------|-------------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| DS-2CD792NF-E   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD792PF-E   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD793PFWD-E | V2.0 100628       | H.264        | 1        | 704x576        | 1-way | 2/2    | Yes | Yes            | No   | -                    | Tested by manufacturer |
| DS-2CD802NF     |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802NF-E   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802NF-W   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802PF     |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802PF-E   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802PF-W   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802N-IR1  |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802N-IR3  |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802N-IR5  |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802P-IR1  |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802P-IR3  |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD802P-IR5  |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD812NF     |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD812NF-E   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD812NF-W   |                   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD812PF     | v2.0 build 090522 | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Tested by manufacturer |





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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name         | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DS-2CD812PF-E       | Refer to DS-2CD812PF (FW v2.0 build 090522)             | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812PF-W       | Refer to DS-2CD812PF (FW v2.0 build 090522)             | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812N-IR1      |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812N-IR3      |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812N-IR5      |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812P-IR1      |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812P-IR3      |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD812P-IR5      |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD2012F-I       | v5.3.0  | H.264        | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| DS-2CD8253F-EI      | v4.0.3 build121123                                      | H.264 MPEG4  | 1        | 1600x1200      | -     | -      | -   | Yes            | Yes  | -                    |                     |
| Note:               | Not support audio but the clickbox is opened(cgi issue) |              |          |                |       |        |     |                |      |                      |                     |
| DS-2CD8254F-EIS     | V3.2 120105   | H.264 MPEG4  | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DS-2CD8264FWD-(EIS) | v4.0.3 build121123                                      | H.264 MPEG4  | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| Note:               | PTZ can't work  |              |          |                |       |        |     |                |      |                      |                     |
| DS-2CD832F          |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD832F-E        |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| DS-2CD852MF-E       | 20100320  | H.264        | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| DS-2CD853F-E        | V3.2 120105   | H.264 MPEG4  | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| DS-2CD854F-E        | V3.2 120105   | H.264 MPEG4  | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|----------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| DS-2CD862MF-E  |   | H.264        | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD863PF-E  | V2.0 100628   | H.264        | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | -    | -                    | Tested by manufacturer |
| DS-2CD864FWD-E | v4.0.3 build121123  | H.264 MPEG4  | 1        | 1280x960       | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                        |
| Note:          | DI can't work, G726 talk can't work, zoom in/out can't work   |              |          |                |       |        |     |                |      |                      |                        |
| DS-2CD883F-E   | V3.2 120105   | H.264 MPEG4  | 1        | 2560x1920      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                        |
| Note:          | 1.DS-2CD8254F-EIS、DS-2CD853F-E、DS-2CD854F-E、DS-2CD883F-E can't set framerate 15~22 in Max resolution<br>2.DS-2CD8254F-EIS、DS-2CD854F-E、DS-2CD883F-E image broken when resolution over 1600x1200 |              |          |                |       |        |     |                |      |                      |                        |
| DS-2CD892NF    |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892NF-E  |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892NF-W  |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892PF    |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892PF-E  |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892PF-W  |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892N-IR1 |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892N-IR3 |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892N-IR5 |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892P-IR1 |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892P-IR3 |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |
| DS-2CD892P-IR5 |   | H.264        | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design    |



New-platform models: FW 20100628 is compatible  
 Old-platform models: only FW 20100320 is acceptable  
 - : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name              | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>DS-2CD6362F-IVS</b>   | V5.0.9 build 141009  | H.264        | 1        | 3072x2048      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:                    | Fisheye camera<br>1. Not support MP2L2. (NUUO server limitation) |              |          |                |       |        |     |                |      |                      |                     |
| <b>DS-2CD6362F-I</b>     | Refer to DS-2CD6362F-IVS(V5.0.9 build                            | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| Note:                    | Fisheye camera with manual calibration in Crystal                |              |          |                |       |        |     |                |      |                      |                     |
| <b>DS-2CD6362F-IV</b>    | Refer to DS-2CD6362F-IVS(V5.0.9 build 141009)                    | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| <b>DS-2CD6362F-IS</b>    | Refer to DS-2CD6362F-IVS(V5.0.9 build 141009)                    | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| <b>DS-2CD6332FWD-I</b>   | Refer to DS-2CD6362F-IVS(V5.0.9 build 141009)                    | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| Note:                    | Fisheye camera with manual calibration in Crystal                |              |          |                |       |        |     |                |      |                      |                     |
| <b>DS-2CD6332FWD-IV</b>  | Refer to DS-2CD6362F-IVS(V5.0.9 build                            | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| Note:                    | Fisheye camera with manual calibration in Crystal                |              |          |                |       |        |     |                |      |                      |                     |
| <b>DS-2CD6332FWD-IS</b>  | Refer to DS-2CD6362F-IVS(V5.0.9 build 141009)                    | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| Note:                    | Fisheye camera with manual calibration in Crystal                |              |          |                |       |        |     |                |      |                      |                     |
| <b>DS-2CD6332FWD-IVS</b> | Refer to DS-2CD6362F-IVS(V5.0.9 build 141009)                    | H.264 MJPEG  | 5        | 2048x2048      | 1-way | 1/1    | -   | Yes            | *2   | Yes*                 | Supported by design |
| Note:                    | Fisheye camera with manual calibration in Crystal                |              |          |                |       |        |     |                |      |                      |                     |



New-platform models: FW 20100628 is compatible  
 Old-platform models: only FW 20100320 is acceptable  
 - : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware  | Video Format      | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|--|-------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| DS-2DE7174-AE   | Refer to DS-2DE7184-A(V5.3.9 build 150910)   | H.264 MJPEG       | 1        | 1920x1080      | *2    | -      | Yes* | Yes            | *2   | Yes*                 | Supported by design |
| DS-2DE7184-A    | V5.3.9 build 150910  | H.264             | 1        | 1920x1080      | *2    | -      | Yes* | Yes            | *2   | Yes*                 |                     |
| Note:           | 1. Auto focus can't be used. (NUUO server limitation)<br>2. Audio codec via AAC can't be used. (NUUO server limitation)  |                   |          |                |       |        |      |                |      |                      |                     |
| DS-2DF1-572     | V4.1.2 build 121205  | H.264             | 1        | 1280*720       | 1-way | 1/1    | Yes  | Yes            | -    | Yes                  |                     |
| DS-2DF8223I-AEL | V5.2.8 build 150124  | H.264 MPEG4       | 1        | 1920x1080      | *2    | *2     | Yes* | *2             | *2   | Yes*                 |                     |
| Note:           | 1. Bitrate list is not sync with web. (Camera Firmware issue)<br>2. Some default preset points can't be used. (NUUO server limitation)   |                   |          |                |       |        |      |                |      |                      |                     |
| DS-6101HFI-IP   | V2.0 101112  | H.264             | 1        | 704x576        | -     | 1/1    | -    | Yes            | -    | -                    |                     |
| Note:           | PTZ is only supported by external RS-485 device.   |                   |          |                |       |        |      |                |      |                      |                     |
| DS-6716HWI      | V1.2.5 build 150522  | H.264 MJPEG MPEG4 | 16       | 960x480        | 1-way | 16/4   | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:           | 1. Can't get snapshot. (NUUO server limitation)  |                   |          |                |       |        |      |                |      |                      |                     |
| DS-8116HQHI-SH  | V3.1.2 build 141219 /Encoding Version: V5.0 build 141218   | H.264             | 16       | 960x576        | 1-way | 16/4   | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:           | 1. The resolution of streaming was not stable. (Camera firmware issue)<br>2. Motion detection can't be used. (Camera firmware issue)<br>3. The video parameter (brightness, contrast..) can't be used. (Camera firmware issue)<br>4. UPnP search can't be used. (Camera firmware issue)<br>5. The number of DI and DO was wrong. (Camera firmware issue)<br>6. DO can't be used. (Camera firmware issue)<br>7. Can't get RTSP port, default value 554. (Camera firmware issue)<br>8. PTZ function only works in channel 1. (Camera firmware issue)<br>9. Unable to achieve setting frame rate, due to duplicate P frame. (Camera firmware issue) |                   |          |                |       |        |      |                |      |                      |                     |



New-platform models: FW 20100628 is compatible  
 Old-platform models: only FW 20100320 is acceptable  
 - : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|----------------|---|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Generic        | V3.1.2 build 141219   | H.264<br>MPEG4<br>MJPEG | 16       | 2560x1920      | 1-way | 2/2    | Yes | Yes            | *1   | Yes                  |         |
| Note:          | 1. V3.1.2 build 141219 is the version of firmware of video server.<br>2. Talk not support in the model support ISAPI protocol. (Camera firmware issue)<br>3. Can't get RTSP port, default value 554. (Camera firmware issue)  |                         |          |                |       |        |     |                |      |                      |         |
| Generic Camera | V5.3.0 build 150616<br>V5.0.9 build 141009  | H.264<br>MPEG4<br>MJPEG | 1        | 2560x1920      | 1-way | 2/2    | Yes | Yes            | *1   | Yes                  |         |
| Note:          | 1. V5.3.0 build 150616 is the version of firmware of IPCam.<br>2. V5.0.9 build 141009 is the version of firmware of fisheye.<br>3. Talk not support in the model support ISAPI protocol. (Camera firmware issue)<br><br>Fisheye model:<br>1. Support generic dewarp<br>2. When audio codec is changed in webpage, audio in IP Camera 2, 3, 4, 5 can't use correct codec. (Camera Firmware issue)<br>3. If stream mode is " Mode 2: Fisheye / 4 PTZ", the total number of connections is limited. ex: If someone preview "Fisheye view", you are not permitted to preview " 4 PTZ view". (Camera performance limitation) |                         |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| ACUIX       | 1.5.6   | MPEG4        | 1        | 4CIF           | -     | -      | Yes | -              | -    | Yes                  |                     |
| Note:       | Sometimes the PTZ function doesn't work properly due to camera FW; users have to restart to make it work. The speed of PTZ is not correspondent with camera web, which might be due to camera FW.           |              |          |                |       |        |     |                |      |                      |                     |
| H3D1F       | 40.0.6  | H.264        | 1        | 1280x720       | 1-way | 1/0    | -   | Yes            | -    | Yes                  |                     |
| Note:       | To ensure compatibility with H3D1F1, H3D1F2, H3D1F3, H4D1F1, HCD1F, HCW1F, H3W1F1, H4W1F1, H3D1F2X, H3D1F3X, H4D1F1X, HCD1FX, HCW1FX, H3W1F1X or H4W1F1X, H3D1F must be selected to work with either model. |              |          |                |       |        |     |                |      |                      |                     |
| H3D2F       | 40.0.6  | H.264        | 1        | 1920x1080      | 1-way | 1/0    | Yes | Yes            | -    | Yes                  |                     |
| Note:       | 1. H3D2F: Only support Zoom, not support Pan and Tilt.<br>2. To ensure compatibility with H3D2F1X, H3D2F1, H4D2F1 or H4D2F1X, H3D2F must be selected to work with either model.                             |              |          |                |       |        |     |                |      |                      |                     |
| HCD554IP    | 5.4.5   | MPEG4        | 1        | 4CIF           | 1-way | 0/1    | -   | -              | -    | Yes                  |                     |
| Note:       | Disable input function due to camera FW.  |              |          |                |       |        |     |                |      |                      |                     |
| HCD5MIH     | 13.1.2  | H.264 MJPEG  | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:       | For integration issue not support TCP connection.   |              |          |                |       |        |     |                |      |                      |                     |
| HD3MDIH     | 11.0.3  | H.264 MJPEG  | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:       | For integration issue not support TCP connection.   |              |          |                |       |        |     |                |      |                      |                     |
| HD4MDIP     | 8.04  | MPEG4        | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| HD4MDIH     | 12.0.3  | H.264 MJPEG  | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:       | For integration issue not support TCP connection.   |              |          |                |       |        |     |                |      |                      |                     |
| HNVE1       | 6.3.4   | MPEG4        | 1        | 4CIF           | 1-way | -      | -   | -              | -    | Yes                  |                     |
| Note:       | Disable I/O function due to camera FW.  |              |          |                |       |        |     |                |      |                      |                     |
| HDZ20HDX    | H20120808NSA  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |                     |
| HDZ20HDEX   | Refer to HDZ20HDX(H20120808NSA)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HDZ20HD     | Refer to HDZ20HDX(H20120809NSA)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name | Tested Firmware                 | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---------------------------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| HDZ20HDE    | Refer to HDZ20HDX(H20120810NSA) | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |

Note: Parameter setting will fail when Mjpeg quality bigger than 60

Note: HD3MDIP, HD4MDIP: Not support I/O currently.  
All models: Users may be confused because the username on login page of camera web is "administrator", but it's "admin" actually. If you type in "administrator", you are no longer to connect the cameras.

# Innotech

- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name   | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks |
|---------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------|
| EXCA100IP2    | v1.8.1001.3.5.25  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | *2           | Yes                  |         |
| <b>Note:</b>  | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set. (Camera firmware issue)<br>2. motion event is not supported under MJPEG format. (Camera firmware issue) |              |          |                |       |        |     |                |      |              |                      |         |
| EXCA215IP2    |   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | *2           | Yes                  |         |
| EXCA336IP2    |   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | *2           | Yes                  |         |
| EXCA234IP2    |   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | *2           | Yes                  |         |
| EXCA234IP2WDR |   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | *2           | Yes                  |         |



# IPcam

- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name  | Tested Firmware  | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|--------------|--|-------------------------|----------|----------------|-------|--------|------|----------------|------|--------------|----------------------|---------------------|
| NBL3102      | 03_C002  | H.264<br>MJPEG          | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)  |                         |          |                |       |        |      |                |      |              |                      |                     |
| NBL7302      | 01_C013  | H.264<br>H.265<br>MJPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes  | Yes            | Yes  | -            | Yes*                 |                     |
| <b>Note:</b> | 1. H.265 starts from Crystal 3.2.<br>2. Audio has noise with AMR. (Camera Firmware issue)<br>3. Camera is unable to achieve maximum FPS. (Camera performance limitation)<br>4. Move can't not move to center. (Camera Firmware issue)                          |                         |          |                |       |        |      |                |      |              |                      |                     |
| NBL7305      | Refer to<br>Zavio<br>B8520(01_013)   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 2/2    | Yes* | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. H.265 starts from Crystal 3.2.  |                         |          |                |       |        |      |                |      |              |                      |                     |
| NDM3102      | 03_C002  | H.264<br>MJPEG          | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)  |                         |          |                |       |        |      |                |      |              |                      |                     |
| NDM5302      | Refer to<br>Zavio<br>D8210(02_013)   | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 2/2    | Yes  | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. Audio has noise with AMR. (Camera Firmware issue)<br>2. Camera with highest resolution is unable to achieve maximum FPS. (Camera performance limitation)<br>3. PTZ only support zoom & focus.   |                         |          |                |       |        |      |                |      |              |                      |                     |
| NDM7302      | 01_C013  | H.264<br>H.265<br>MJPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes  | Yes            | Yes  | -            | Yes*                 |                     |
| <b>Note:</b> | 1. H.265 starts from Crystal 3.2.<br>2. Audio has noise. (Camera Firmware issue)<br>3. G.726 does not supported. (NUUO server limitation)  |                         |          |                |       |        |      |                |      |              |                      |                     |
| NDM7305      | Refer to<br>Zavio<br>B8520(01_013)   | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 2/2    | Yes* | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. H.265 starts from Crystal 3.2.  |                         |          |                |       |        |      |                |      |              |                      |                     |
| NBL5103      | 01_C013  | H.264<br>H.265<br>MJPEG | 1        | 2048x1536      | -     | -      | -    | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. H.265 starts from Crystal 3.2.<br>2. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)<br>3. Quality list can not sync with web. (Camera Firmware issue)<br>4. Bitrate list can not sync with web in MJPEG. (Camera Firmware issue) |                         |          |                |       |        |      |                |      |              |                      |                     |
| NDM5103      | 01_C013  | H.264<br>H.265<br>MJPEG | 1        | 2048x1520      | -     | -      | -    | Yes            | Yes  | -            | Yes*                 | Supported by design |
| <b>Note:</b> | 1. H.265 starts from Crystal 3.2.<br>2. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)<br>3. Quality list can not sync with web. (Camera Firmware issue)<br>4. Bitrate list can not sync with web in MJPEG. (Camera Firmware issue) |                         |          |                |       |        |      |                |      |              |                      |                     |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|-------------|---|-----------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| Generic     |   | H.264<br>M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| Note:       | 1.Focus function is not test on software.<br>2.The maximum resolution is depends on camera.<br>3.Some framerate and bitrate can't be set due to Onvif restriction.  |                 |          |                |       |        |     |                |      |              |                      |                     |
| NCOA22F     | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NCOA32FD    | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NCOA52F     | v1.8.1001.<br>85.0.8317   | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 |                     |
| Note:       | 1. Camera with high resolution and quality is unable to achieve max fps. (Camera performance limitation)<br>2. The range of bitrate isn't synchronized with the one on camera's web due to Onvif restriction. (Camera performance limitation)<br>3. The list of framerate isn't synchronized with the one on camera's web due to Onvif restriction. (Camera performance limitation) |                 |          |                |       |        |     |                |      |              |                      |                     |
| NDOA22F-W   | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NDOA32FD-W  | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIAA202F    | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIDA212F-W  | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIDA312FD-W | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIDA512F-W  | refer to<br>NCOA52F(<br>v1.8.1001.<br>85.0.8317)  | H.264<br>MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                       | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|-------------|---------------------------------------|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| NIPA2H22-C  | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIPA2H22-W  | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIRA222F    | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIRA232F    | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NIRA332FD   | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NITA212F    | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |
| NITA312FD   | refer to NCOA52F(v1.8.1001.85.0.8317) | H.264 MJPEG  | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes          | Yes*                 | Supported by design |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name       | Tested Firmware | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------------|-----------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| JS-C1100          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-C2100          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-WGP-100-CB     |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-B0100          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-B0100-W        |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-B0131          |                 | M-JPEG<br>MPEG4          | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-BB1100-R30     |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-B1100          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JB-B1204-R25      |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-D0100          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-D1100          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-D1130          |                 | M-JPEG<br>MPEG4          | 1        | 1280x800       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-D1204          |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| JS-<br>ISD0200x18 |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| JS-<br>OSD0200x20 |                 | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format           | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| VN-H37      | refer VN-H137   | H.264                  | 1        | 1920x1080      | -     | -      | -   | Yes            | -    | Yes                  |         |
| VN-H237     | refer VN-H137   | H.264                  | 1        | 1920x1080      | -     | -      | -   | Yes            | -    | Yes                  |         |
| VN-H137     | 4.02.378  | H.264                  | 1        | 1920x1080      | -     | -      | -   | Yes            | -    | Yes                  |         |
| Note:       | 1. H264 support Baseline Profile only<br>2. When 30fps or 25fps is set, 3DDNR, motion detection and analog video output are not available.<br>3. Encoder settings can not be changed during multicast.<br>4. Firmware Issue: H264 video stream is unstable over low framerate.  |                        |          |                |       |        |     |                |      |                      |         |
| VN-H157     | refer VN-H57  | H.264                  | 1        | 1920x1080      | 1-way | 2/2    | -   | Yes            | -    | Yes                  |         |
| VN-H257     | refer VN-H57  | H.264                  | 1        | 1920x1080      | 1-way | 2/2    | -   | Yes            | -    | Yes                  |         |
| VN-H57      | 4.00.575  | H.264                  | 1        | 1920x1080      | 1-way | 2/2    | -   | Yes            | -    | Yes                  |         |
| Note:       | 1. H264 support Baseline Profile only<br>2. When 30fps or 25fps is set, 3DDNR, motion detection and analog video output are not available.<br>3. Encoder settings can not be changed during multicast.<br>4. Firmware Issue: MJPEG video stream is unstable over high resolutions.  |                        |          |                |       |        |     |                |      |                      |         |
| VN-H657     | 2.01.827<br>SPL2841   | H264<br>MJPEG          | 1        | 1920x1080      | -     | 2/2    | Yes | Yes            | -    | Yes                  |         |
| Note:       | Motion Detection is available at Home Position.<br>Firmware Issue: Mjpeg video stream is unstable over high resolutions such as 1920X1080, 1280x720.  |                        |          |                |       |        |     |                |      |                      |         |
| VN-T16      | j.2.2.2232  | H264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | Yes                  |         |
| Note:       | 1. There are lower frame rate limitations for H264 and MPEG4. When choosing CBR, some conditions will be disabled based on different resolution setting. When choosing VBR, some conditions will be disabled based on different resolution setting.<br>2. Firmware Issue: Mjpeg video stream is unstable over high resolutions such as 1920X1080, 1280x720.<br>3. Firmware Issue: The Encoder parameters may not sync camera web. |                        |          |                |       |        |     |                |      |                      |         |
| VN-T216     | refer VN-T16<br>(j.2.2.2232)  | H264<br>MPEG4<br>MJPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | Yes                  |         |
| Note:       | 1. There are lower frame rate limitations for H264 and MPEG4. When choosing CBR, some conditions will be disabled based on different resolution setting. When choosing VBR, some conditions will be disabled based on different resolution setting.<br>2. Firmware Issue: Mjpeg video stream is unstable over high resolutions such as 1920X1080, 1280x720.<br>3. Firmware Issue: The Encoder parameters may not sync camera web. |                        |          |                |       |        |     |                |      |                      |         |
| VN-V686     | refer VN-V685   | MPEG4                  | 1        | VGA            | -     | 2/2    | Yes | Yes            | -    | Yes                  |         |
| VN-V685     | 3.04  | MPEG4                  | 1        | VGA            | -     | 2/2    | Yes | Yes            | -    | Yes                  |         |
| Note:       | Motion Detection is available at Home Position.   |                        |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| FCS-0010     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| FCS-0020     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| FCS-0030     | Refer to WCS-0030  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| FCS-0031     | 1.0.0.35   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                    |                     |
| Note:        | Not support on-edge motion with MJPEG format, which is camera limitation.  |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-0040     | Refer to WCS-0040  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| Note:        | Not support on-edge motion currently due to camera issue.  |                          |          |                |       |        |     |                |      |                      |                     |
| WCS-0050     | v1.0.0.36  | MPEG4<br>MJPEG<br>H264   | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| FCS-1030V2.0 |  | MPEG4                    | 1        | 720x576        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| FCS-1040     | 0102a  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| FCS-1060     | 0202a  | MPEG4                    | 1        | 720x576        | 1-way | -      | Yes | Yes            | Yes  | -                    |                     |
| FCS-1070     |  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| FCS-1081     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | -      | -   | Yes            | Yes  | -                    | Supported by design |
| FCS-1081A    |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | -                    |                     |
| FCS-1091     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/2    | -   | -              | Yes  | -                    | Supported by design |
| FCS-1101     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| FCS-1131     | L20101222N<br>S  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| FCS-1132     | v1.0.0.2   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:        | 1. Motion Detection of MPEG4 is error.   |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-1141     | L20100623N<br>S  | H.264<br>M-JPEG          | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| Note:        | UPnP search doesn't work properly sometimes, which happens on camera's own search tool. We are clarifying with vendor. |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-1151     | 0100c  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| Note:        | UPnP search doesn't work properly sometimes, which happens on camera's own search tool. We are clarifying with vendor. |                          |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| FCS-3000        | 0101a  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| FCS-3021        |  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| FCS-3031        | V1.0.04  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | -              | Yes  | -                    |                     |
| Note:           | The frame rate is 15 even configuring frame rate 1 under 320x240 and 160x120 resolution, which belongs to camera issue.<br>Not support on-edge motion currently due to camera issue. |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-3052        | v1.0.0.2   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:           | 1. Motion Detection of MPEG4 is error.   |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-3061        | 1.0.0.34   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| FCS-3062        | v1.0.0.6   | MPEG4<br>M-JPEG<br>H.264 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| FCS-3071        | L20101222N<br>S  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | -                    |                     |
| FCS-3071-<br>V2 | le20120905N<br>SA  | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| FCS-3081        | L20101222N<br>S  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| FCS-3091        | 2.0.0629   | MPEG4<br>M-JPEG          | 1        | 1600x1200      | 1-way | 4/1    | -   | -              | Yes  | -                    |                     |
| Note:           | Not support on-edge motion & dual stream in this camera FW due to its limitation.  |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-3101        | FCS-3101-<br>ANC3211M-<br>1.0.1.3-08-<br>07  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| FCS-4010        |  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 4/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| FCS-4041        | le20130117N<br>SA  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note:           | LevelOne FCS-4041: High video parameter causes slow CGI command response.  |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-4042        | Le20140113<br>NSA  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:           | 1. FPS could not reach up to 30 while high quality.<br>2. Preset name use special symbol failed ex: #<br>3. High video parameter causes slow CGI command response                    |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-4101        | FCS-4101-<br>ANC3210M-<br>1.0.1.3-08-<br>07  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | -      | Yes | Yes            | Yes  | Yes                  |                     |
| FCS-4x00        |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| FCS-5011     | 0100c  | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| FCS-5030     | 0100a2   | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:        | No audio support in M-JPEG.  |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-5041     | 1.0.0.46   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| FCS-5042     | 2.0.0.1  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/0    | Yes | Yes            | Yes  | Yes                  |                     |
| FCS-5051     | L20101222N<br>S  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| FCS-5052     | v1.0.0.2   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:        | 1. Motion Detection of MPEG4 is error.   |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-5061     | le20130117N<br>SA  | H264<br>MJPEG            | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| FCS-5062     | v1.0.0.2   | H.264<br>MPEG4           | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:        | 1. Motion Detection of MPEG4 is error.   |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-6010     | 1.0.0.11   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/0    | Yes | Yes            | Yes  | -                    |                     |
| Note:        | Not support DO in this camera FW.<br>Cannot get video stream through TCP/UDP sometimes, which belongs to camera issue.<br>Camera may reboot itself when changing video format to MPEG4, which belongs to camera issue. |                          |          |                |       |        |     |                |      |                      |                     |
| FCS-7011     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    | Supported by design |
| SDK8         | CFA-<br>V6.07.23-L1  | H264<br>MJPEG            | 1        | 3648x2736      | 1-way | 1/1    | Yes | Yes            | -    | Yes*                 | Supported by design |
| WCS-0010     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | -              | Yes  | -                    | Supported by design |
| WCS-0020     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | Yes | -              | Yes  | -                    | Supported by design |
| WCS-0030     | 1.0.0.35   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | -      | -   | Yes            | Yes  | -                    |                     |
| WCS-0040     | 1.0.0.3  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -      | -   | -              | Yes  | -                    |                     |
| Note:        | Not support on-edge motion currently due to camera issue.  |                          |          |                |       |        |     |                |      |                      |                     |
| WCS-1090     |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/2    | -   | -              | Yes  | -                    | Supported by design |
| WCS-2030V3.0 |  | MPEG4                    | 1        | 720x576        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |





- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| WCS-2040    | 0101b           | MPEG4<br>M-JPEG         | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | Yes  | -                    |                     |
| WCS-2060    |                 | MPEG4                   | 1        | 720x576        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| WCS-2070    | 0100b           | MPEG4<br>M-JPEG         | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    |                     |
| WCS-6020    | 1.1.4.1         | MJPEG<br>MPEG4<br>H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| WCS-6050    | 1.0.4.2         | MJPEG<br>H.264          | 1        | 2560x1920      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| LDW2010     | 260.0.0.1208100  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -    | Yes            | -    | Yes                  |                     |
| LNB3100     | Refer to LND5100   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | -    | Yes                  |                     |
| LNB5100     | Refer to LND5100   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | -    | Yes                  |                     |
| LND3100     | Refer to LND5100   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | -    | Yes                  |                     |
| LND5100     | 1796.0.0.1208060   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | -    | Yes                  |                     |
| Note:       | TCP connection has chance disconnect automatically                               |              |          |                |       |        |      |                |      |                      |                     |
| LND7210     | Refer to LNV7210R(xxxx.0.0.1405190)  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | *2     | -    | Yes            | *2   | Yes                  | Supported by design |
| LND7210R    | Refer to LNV7210R(xxxx.0.0.1405190)  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | *2     | -    | Yes            | *2   | Yes                  | Supported by design |
| LND7300     | 1801.0.0.1303220   | H.264 MJPEG  | 1        | 2048x1536      | *2    | *2     | -    | Yes            | -    | Yes                  |                     |
| LNP2800     | Refer to LNP3700T  | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes  | Yes            | -    | Yes                  |                     |
| LNP2800I    | Refer to LNP3700T  | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes  | Yes            | -    | Yes                  |                     |
| LNP2810T    | 1890.0.0.1302150   | H.264 MJPEG  | 1        | 1280x720       | *2    | *2     | Yes  | Yes            | -    | Yes                  |                     |
| LNP3020     | 1891.0.0.1411270   | H.264 MJPEG  | 1        | 1920x1080      | *2    | *2     | Yes* | Yes            | *2   | Yes                  |                     |
| Note:       | 1.The 2nd stream's frame rate will exceed the setting value (Camera limitation). |              |          |                |       |        |      |                |      |                      |                     |
| LNP3700     | Refer to LNP3700T  | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes  | Yes            | -    | Yes                  |                     |
| LNP3700T    | 1286.0.0.1205140   | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes  | Yes            | -    | Yes                  |                     |
| Note:       | TCP connection has chance disconnect automatically                               |              |          |                |       |        |      |                |      |                      |                     |
| LNU5100R    | 1954.0.0.1303120   | H.264 MJPEG  | 1        | 1280x1024      | *2    | *2     | -    | Yes            | -    | Yes                  |                     |
| LNU7210R    | Refer to LNV7210R(xxxx.0.0.1405190)  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | *2     | -    | Yes            | *2   | Yes                  | Supported by design |
| LNV5100     | Refer to LND5100   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | -    | Yes                  |                     |
| LNV5100R    | 1972.0.0.1303110   | H.264 MJPEG  | 1        | 1280x1024      | *2    | *2     | -    | Yes            | -    | Yes                  |                     |
| LNV7210     | Refer to LNV7210R(xxxx.0.0.1405190)  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | *2     | -    | Yes            | *2   | Yes                  | Supported by design |



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 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| LNV7210R    | 2237.0.0.1405190   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | *2     | -   | Yes            | *2   | Yes                  |                     |
| Note:       | Unable to set video parameter (brightness...etc)   |              |          |                |       |        |     |                |      |                      |                     |
| LNV7300     | Refer to LND7300(FW 1801.0.0.130)  | H.264 MJPEG  | 1        | 2048x1536      | *2    | *2     | -   | Yes            | -    | Yes                  |                     |
| LSW2010     | Refer to LDW2010   | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| LSW900      | Refer to LVW701  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| LSW901      | Refer to LVW701  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| LVS201      | 385.0.0.1208200  | H.264 MJPEG  | 1        | 704x576        | -     | -      | Yes | Yes            | -    | Yes                  |                     |
| LVS301      | Refer to LVS311  | H.264 MJPEG  | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| LVS311      | 129.1.0.1110260  | H.264 MJPEG  | 1        | 704x576        | 1-way | 1/1    | Yes | Yes            | -    | Yes                  |                     |
| LVW700      | Refer to LVW701  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| LVW701      | 4.1.1.1110260  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LVW900      | Refer to LVW701  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| LVW901      | Refer to LVW701  | H.264 MJPEG  | 1        | D1             | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| LNV5110     | Refer to LND5100   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW130W      | 4097.0.0.1203131   | H.264 MJPEG  | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:       | TCP connection has chance disconnect automatically   |              |          |                |       |        |     |                |      |                      |                     |
| LW332       | 1026.0.0.1110260   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -   | YES            | -    | Yes                  |                     |
| LW335       | Refer to LW332   | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW342       | Refer to LW345   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW345       | 515.0.0.1110260  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:       | 1. TCP connection has chance disconnect automatically<br>2. Can't support dual-stream at H264,1920x1080 (or above), over 20fps |              |          |                |       |        |     |                |      |                      |                     |
| LW352       | 1030.0.0.1111160   | H.264 MJPEG  | 1        | 2040x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW355       | Refer to LW352   | H.264 MJPEG  | 1        | 2040x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |



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 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| LW6324      | Refer to LW332  | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW6354      | Refer to LW332  | H.264 MJPEG  | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW6424      | Refer to LW345  | H.264 MJPEG  | 1        | 2040x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW6454      | Refer to LW345  | H.264 MJPEG  | 1        | 2040x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| LW9226      | 774.0.0.1211<br>289   | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes | Yes            | -    | Yes                  |                     |
| LW92261     | Refer to LW9226   | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes | Yes            | -    | Yes                  | Supported by design |
| LW9228      | Refer to LW9226   | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes | Yes            | -    | Yes                  | Supported by design |
| LW92281     | Refer to LW9226   | H.264 MJPEG  | 1        | D1             | 1-way | 4/2    | Yes | Yes            | -    | Yes                  | Supported by design |
| LW9422      | 1632.0.0.120<br>5030  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | -    | Yes                  |                     |
| Note:       | For LW9422:<br>1. PTZ will stop automatically when press button over 10sec.<br>2. Focus Near / Far need setup the Focus mode in camera's OSD<br>3. Adjust zoom speed is useless<br>4. Can't support dual-stream at H264,1920x1080 (or above), over 20fps<br>For LW9226 :<br>1. PTZ will stop automatically when press button over 10sec.<br>2. Focus Near / Far need setup the Focus mode in camera's OSD<br>2. Audio out impedance is too large.<br>For LVS201:<br>1. QCIF has image noise at the bottom line. |              |          |                |       |        |     |                |      |                      |                     |



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For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name              | Tested Firmware   | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|--------------------------|---|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| NCD-2003PR               | 51110.2.12<br>62.100  | H.264<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note:                    | 1. When set Anti-Flicker Mode to 50Hz, Mainconsole would get wrong Max of FPS(30). (Firmware issue)<br>2. PTZ only support Zoom/Focus   |                 |          |                |       |        |     |                |      |                      |         |
| NMX-2003P                | 51110.2.12<br>62.100  | H.264<br>M-JPEG | 1        | 1920x1080      | -     | -      | Yes | Yes            | Yes  | Yes                  |         |
| Note:<br>(MegaIP camera) | 1. Getting bitrate value would not sync with camera's web. (Camera onvif issue)<br>2. Setting quality value would not sync with camera's web. (Camera onvif issue)<br>3. After setting parameter on camera, camera would restart for a while. After camera restart completed, then parameter can be got.<br>4. MD and I/O works only when http is 80. |                 |          |                |       |        |     |                |      |                      |         |



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For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name      | Tested Firmware  | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|------------------|--|--------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>NCB855PRO</b> | AP_01-00-60-25A_MS03   | H264, MJPEG, MPEG4 | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note             | 1.Set parameter will take 10 sec or more to setup<br>2.Get parameter may wrong after set parameter<br>3.Broken textures on connected in 1~4sec at MPEG4<br>4.Not support auto detection<br>5.Setup bit rate of MPEG4 will response wrong parameter |                    |          |                |       |        |     |                |      |                      |                     |
| <b>NCC800</b>    | AP_01-00-60-25B_MS03   | H264, MJPEG, MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note             | 1.Set parameter will take 10 sec or more to setup<br>2.Get parameter may wrong after set parameter<br>3.Broken textures on connected in 1~4sec at MPEG4<br>4.Not support auto detection  |                    |          |                |       |        |     |                |      |                      |                     |
| <b>NCB858</b>    | Refer to NCR878(AP_01-00-62-18_MS05)   | H.264 MJPEG MPEG4  | 1        | 2592x1944      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NCR870</b>    | AP_01-00-62-18_MS00-01N  | H.264 MJPEG MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:            | 1.Set parameter will take 10 sec or more to setup.<br>2.Get parameter may wrong after set parameter.<br>3.The setting of framerate is 30, but actual receiving framerate is only 15.   |                    |          |                |       |        |     |                |      |                      |                     |
| <b>NCR875PRO</b> | AP_01-00-60-25A_MS03   | H264, MJPEG, MPEG4 | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note             | 1.Set parameter will take 10 sec or more to setup<br>2.Get parameter may wrong after set parameter<br>3.Broken textures on connected in 1~4sec at MPEG4<br>4.Not support auto detection<br>5.Setup bit rate of MPEG4 will response wrong parameter |                    |          |                |       |        |     |                |      |                      |                     |
| <b>NCR878</b>    | AP_01-00-62-18_MS05  | H.264 MJPEG MPEG4  | 1        | 2592x1944      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:            | 1.Set parameter will take 10 sec or more to setup.<br>2.Get parameter may wrong after set parameter.<br>3.Auto detection can't be use.   |                    |          |                |       |        |     |                |      |                      |                     |



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 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name       | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio   | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------------|--|--------------------------|----------|----------------|---------|--------|-----|----------------|------|----------------------|---------------------|
| <b>NDF820</b>     | Refer to NCR870(AP_01-00-62-18_MS00-01N)   | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | -       | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:             | 1.Set parameter will take 10 sec or more to setup.<br>2.Get parameter may wrong after set parameter.<br>3.The setting of framerate is 30, but actual receiving framerate is only 15.   |                          |          |                |         |        |     |                |      |                      |                     |
| <b>NDF821</b>     | Refer to NDR891(AP_01-00-60-25A_MS02)  | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | 1-way   | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDF821PRO</b>  | Refer to NCR875PRO(AP_01-00-60-25A_MS03)   | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | 1-way   | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDF831</b>     | Refer to NDR891(AP_01-00-60-25A_MS02)  | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | 1-way   | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDF831PRO</b>  | Refer to NCR875PRO(AP_01-00-60-25A_MS03)   | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | 1-way   | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NDR891</b>     | AP_01-00-60-25A_MS02   | H264,<br>MJPEG,<br>MPEG4 | 1        | 1920x1080      | 1-way   | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note              | 1.Set parameter will take 10 sec or more to setup<br>2.Get parameter may wrong after set parameter<br>3.Broken textures on connected in 1~4sec at MPEG4<br>4.Not support auto detection<br>5.Setup bit rate of MPEG4 will response wrong parameter |                          |          |                |         |        |     |                |      |                      |                     |
| <b>NDR891PRO</b>  | Refer to NCR875PRO(AP_01-00-60-25A_MS03)   | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | 1-way   | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>NIC950HPRO</b> | A1D-310-V4.12.09-NB  | MPEG4<br>M-JPEG<br>H.264 | 1        | 720x480        | 1-way*2 | -      | Yes | Yes            | -    | Yes                  |                     |
| Note              | 1.Not support UPnP<br>2.Not support auto detection<br>3.Not support motion detection on MJPEG<br>4.Not support DI and DO   |                          |          |                |         |        |     |                |      |                      |                     |



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\*2: not test on software

For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| NIC990      | M.O.2.9   | H.264        | 1        | 1920x1080      | 1-way | 6/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note        | 1.Can't set framerate<br>2.Only support H.264<br>3.Not support dual stream on 1080P |              |          |                |       |        |     |                |      |                      |         |





- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name         | Tested Firmware | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|-----------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| HD-PRO302DN         | DC Standard     | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| HD-PRO310DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO332DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO350DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO350DNW /H     | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO350DNW /IR    | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO350DNW /IR/H  | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO351DNW /H     | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO351DNW /IR/H  | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO352DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO352DNW /IR    | mw2014070 3NSA  | H.264 M-JPEG | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO370W          | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO370WOUT       | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO392DNW /V     | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO410DNW /H     | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO410DNW /H-POE | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO518DN         | mw2014070 3NSA  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | -                    | Supported by design |
| HD-PRO610DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO692DNW /V/IR  | mw2014070 3NSA  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO710DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| HD-PRO750DNW        | mw2014070 3NSA  | H.264 M-JPEG | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |

|                         |                   |                 |   |           |       |     |     |     |     |            |                     |
|-------------------------|-------------------|-----------------|---|-----------|-------|-----|-----|-----|-----|------------|---------------------|
| <b>HD-PRO750DNW/IR</b>  | mw2014070<br>3NSA | H.264<br>M-JPEG | 1 | 2592x1944 | 1-way | 1/1 | Yes | Yes | Yes | Yes        | Supported by design |
| <b>HD-PRO810DNW/H</b>   | mw2014070<br>3NSA | H.264<br>M-JPEG | 1 | 2592x1944 | 1-way | 1/1 | Yes | Yes | Yes | Yes        | Supported by design |
| <b>HD-PRO810DNW/H/M</b> | mw2014070<br>3NSA | H.264<br>M-JPEG | 1 | 2592x1944 | 1-way | 1/1 | Yes | Yes | Yes | Yes        | Supported by design |
| <b>HD-PRO890</b>        | mw2014070<br>3NSA | H.264,<br>MJPEG | 1 | 2592x1944 | 1-way | 1/1 | -   | Yes | Yes | Yes        | Supported by design |
| <b>HD-PRO890/OUT</b>    | mw2014070<br>3NSA | H.264,<br>MJPEG | 1 | 2592x1944 | 1-way | 1/1 | -   | Yes | Yes | <b>Yes</b> | Supported by design |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name         | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| C25                 | Refer to i25(4.3.2.77)  | MJPEG MxPEG  | 1        | 2592x1944      | 1-way | -      | -   | Yes            | -    | Yes*                 | Supported by design |
| D12D-IT             |   | M-JPEG MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| D12D-Sec            |   | M-JPEG MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| D14D-Sec            | MX-V4.1.0.2   | M-JPEG MxPeg | 1        | 2048x1536      | 1-way | -      | -   | -              | -    | Yes                  |                     |
| D15D-Sec            | Refer to D15D-Sec-Dnight(MX-V4.1.9.29)  | M-JPEG MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 | Supported by design |
| D15D-Sec-Dnight     | MX-V4.1.9.29  | M-JPEG MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 |                     |
| D15D-Sec-Night-Pano | Refer to D15D-Sec-Dnight(MX-V4.1.9.29)  | M-JPEG MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 | Supported by design |
| D15D-Sec-Pano       | Refer to D15D-Sec-Dnight(MX-V4.1.9.29)  | M-JPEG MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes                  | Supported by design |
| D22M-Basic          |   | M-JPEG MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| D22M-IT             | MX-V3.4.0.9   | M-JPEG MxPeg | 1        | 640x480        | -     | 2/2    | -   | Yes            | -    | Yes                  | Supported by design |
| D22M-Sec            |   | M-JPEG MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| D24-Basic           |   | M-JPEG MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| D24-IT              |   | M-JPEG MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| D24-Sec             | MX-V4.0.1.15 (2009-07-20)   | M-JPEG MxPeg | 1        | 2048x1536      | -     | 2/2    | -   | Yes            | -    | Yes                  |                     |
| i25                 | 4.3.2.77  | MJPEG MxPEG  | 1        | 2592x1944      | 1-way | -      | -   | Yes            | -    | Yes*                 |                     |
| Note:               | 1.Audio only support under MxPEG.(Camera Firmware Issue)<br>2.The max framerate we get only 12 frame per second.(Camera Firmware Issue) |              |          |                |       |        |     |                |      |                      |                     |
| Generic             | MX-V4.1.9.29  | M-JPEG MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes                  |                     |
| M10D                | M10-V2.2.2.17   | M-JPEG MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  |                     |
| M12D-IT             |   | M-JPEG MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-----------------|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| M12D-Sec        | MX-V3.4.0.9  | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  |                     |
| M12D-Web        |  | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| M15D-Sec        | 4.3.4.5  | MxPEG<br>M-JPEG | 1        | 3072x2048      | 1-way | 2/2    | -   | *2             | *2   | Yes*                 |                     |
| Note:           | 1. Does not support rotate. (NUUO server limitation)<br>2. The camera with higher quality and resolution is unable to achieve the fps which users set for all streams. (Camera Firmware issue)<br>3. The 2nd and 3rd stream resolution will depends on 1st stream resolution setting. For example, if users set the resolution of 1st stream to 2048*1536(the ratio of height and width is 4:3) and 2nd stream resolution is 1920*1080, the 2nd stream resolution will become 1440*1080(4:3) instead of 1920*1080(16:9). (Camera performance limitation) |                 |          |                |       |        |     |                |      |                      |                     |
| M15D-Sec-Dnight | Refer to M15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 | Supported by design |
| M15M-Sec        | Refer to M15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 | Supported by design |
| M22M-IT         |  | M-JPEG<br>MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| M22M-Sec        |  | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| M24M-Sec        | MX-V4.0.4.28   | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                  |                     |
| Note:           | 1.Audio only support on MxPEG.<br>2.Motion event works abnormal until first time trigger.<br>3.Resolution of dual-stream can't bigger then main-stream   |                 |          |                |       |        |     |                |      |                      |                     |
| M25M            | Refer to i25(4.3.2.77)   | MJPEG<br>MxPEG  | 1        | 2592x1944      | 1-way | -      | -   | Yes            | -    | Yes*                 | Supported by design |
| P25             | Refer to i25(4.3.2.77)   | MJPEG<br>MxPEG  | 1        | 2592x1944      | 1-way | -      | -   | Yes            | -    | Yes*                 | Supported by design |
| D25             | Refer to i25(4.3.2.77)   | MJPEG<br>MxPEG  | 1        | 2592x1944      | 1-way | -      | -   | Yes            | -    | Yes*                 | Supported by design |
| Q25             | Refer to i25(4.3.2.77)   | MJPEG<br>MxPEG  | 1        | 2592x1944      | 1-way | -      | -   | Yes            | -    | Yes*                 | Supported by design |
| Q22M-Basic      |  | M-JPEG<br>MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|----------------|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| Q22M-Sec       | MX-V3.4.5.10   | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     | 2/2    | -   | Yes            | -    | Yes                  | Supported by design |
| Note:          | Q22M-Basic and Q22M-Sec are fisheye camera   |                 |          |                |       |        |     |                |      |                      |                     |
| Q24-Basic      |  | M-JPEG<br>MxPeg | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| Q24-Sec        | MX-V4.0.1.7  | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     |        | -   | Yes            | -    | Yes                  |                     |
| Note:          | Q24M-Basic and Q24M-Sec are fisheye camera   |                 |          |                |       |        |     |                |      |                      |                     |
| Q25M-Secure    | MX-V4.1.10.35  | M-JPEG<br>MxPeg | 1        | 2048X1536      | 1-way | 2/2    | Yes | Yes            | -    | Yes*                 |                     |
| Note:          | Fisheye camera with manual calibration in Crystal<br>When display mode is panorama, move will become vague.  |                 |          |                |       |        |     |                |      |                      |                     |
| S14D-Sec       | Refer to S15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes                  | Supported by design |
| S14D-Sec-Night | Refer to S15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes                  | Supported by design |
| S14M-Sec       | Refer to S15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes                  | Supported by design |
| S15D-Sec       | MX-V4.1.9.29   | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 |                     |
| S15M-Sec       | Refer to S15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 | Supported by design |
| S15M-Sec-Night | Refer to S15D-Sec(MX-V4.1.9.29)  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | -   | Yes            | -    | Yes*                 | Supported by design |
| Note:          | For M15D-Sec, S15D-Sec, D15D-Sec:<br>1. (Camera issue): The camera with higher quality and resolution is unable to achieve the fps which users set for all streams<br>2. (Known issue): The actual sub-stream resolution depend on 1st stream resolution value . For example, if users set the resolution of 1st stream to 2048*1536(the ratio of height and width is 4:3) and 2nd stream resolution is 1920*1080, the 2nd stream resolution will become 1440*1080(4:3) instead of 1920*1080(16:9) |                 |          |                |       |        |     |                |      |                      |                     |
| T24-Sec        | MX-V4.0.4.19   | M-JPEG<br>MxPeg | 1        | 2048x1536      | -     | 7/3    | -   | Yes            | -    | Yes                  |                     |
| T25M-Secure    | MX-V4.1.10.35  | M-JPEG<br>MxPeg | 1        | 2048x1536      | 1-way | 2/2    | Yes | Yes            | -    | Yes*                 |                     |
| Note:          | When display mode is panorama, move will become vague.   |                 |          |                |       |        |     |                |      |                      |                     |
| Note:          | For All Model:<br>1. For display mode, please set on the Mobotix web setting page first.<br>2. No Support Audio from Camera when video format is MJPEG.<br>3. Using ExtIO, please set on the Mobotix web setting page first.   |                 |          |                |       |        |     |                |      |                      |                     |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| HMNC100     | 00910   | H.264        | 1        | 1280x720       | -     | -      | -   | -              | Yes  | Yes                  |         |
| Note:       | 1. When setting FPS to 6~9, Camera will achieve maximum FPS. (Camera firmware issue)<br>2. Bitrate setting is not work. (Camera firmware issue)<br>3. Camera UPNP search failure. (Camera firmware issue)<br>4. No quality options in VBR mode. (Camera firmware issue)<br>5. Motion are not supported. (Camera firmware issue) |              |          |                |       |        |     |                |      |                      |         |
| HMNC500     | 00910   | H.264        | 1        | 1280x720       | 1-way | -      | -   | -              | Yes  | Yes                  |         |
| Note:       | 1: When setting FPS to 6~9, Camera will achieve maximum FPS.(Camera firmware issue)<br>2. Quality options for CBR mode is not work. (Camera firmware issue)<br>3. Not support motion. (Camera firmware issue)<br>4. Camera UPNP search failure. (Camera firmware issue)   |              |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Brand  | Device Name  | Tested Firmware                          | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|--------|--|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Basler | BIP2-1600-25c-DN   | 3.14.1                                   | M-JPEG<br>H.264 | 1        | 1600x1200      | -     | -      | -   | -              | -    | -                    |         |
| Note:  | 1. The I/O number is 0 in onvif/onvif. (Camera Firmware Issue)<br>2. Only one stream profile in onvif/onvif (Camera Firmware Issue)<br>3. Not support MPEG4 in onvif/onvif (Camera Firmware Issue)<br>4. Not support motion. (Camera Firmware Issue)<br>5. Not support audio but software shows enable/disabe audio option. (Camera Firmware Issue)<br>6. The list of camera Resolution isn't synchronized with the one on camera's web. (Camera Firmware Issue)<br>7. Cannot connect video when FPS >= 2. (Camera firmware issue)<br>8. The list of camera Framerate isn't synchronized with the one on camera's web.<br>9. Not support http but software shows http option at protocol setting. (NUUO software limitation)<br>10. Cannot connect video streaming if RTSP port is changed (Camera firmware issue) |  |                 |          |                |       |        |     |                |      |                      |         |
| BOSCH  | NWC-0455   | 19500410                                 | H.264<br>M-JPEG | 1        | 704x576        | -     | -      | -   | -              | -    | -                    |         |
| Note:  | ONVIF specification must be fully implemented by camera vendors in order to be supported by NUUO software. To confirm the compatibility, it is recommended to execute testing prior to any further usage. The above product has been verified by NUUO.   |  |                 |          |                |       |        |     |                |      |                      |         |
| Canon  | VB-H41   | Ver. 1.0.0<br>(Build Number<br>2483:50)  | M-JPEG          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | -    | Yes*                 |         |
| Note:  | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)<br>2. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)<br>3. Snapshot does not support. (NUUO server limitation)   |  |                 |          |                |       |        |     |                |      |                      |         |
| Canon  | VB-H710F   | Ver. 1.2.0<br>(Build Number<br>3015:109) | M-JPEG          | 1        | 1920x1080      | 1-way | 2/2    | Yes | -              | -    | Yes*                 |         |
| Note:  | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)<br>2. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)<br>3. PTZ only support focus.<br>4. Motion does not support. (Camera firmware issue)<br>5. Talk may have muted-sound sometime. (Camera firmware issue)<br>6. Camera is unable to achieve maximum FPS. (Camera firmware issue)   |  |                 |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Brand    | Device Name  | Tested Firmware                       | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|----------|--|---------------------------------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Canon    | VB-S30D  | Ver. 1.0.0<br>(Build Number 2826:36)  | M-JPEG                   | 1        | 1920x1080      | 1-way | 1/1    | Yes | -              | -    | Yes*                 |         |
| Note:    | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)<br>2. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)<br>3. Motion does not support. (Camera firmware issue)                          |                                       |                          |          |                |       |        |     |                |      |                      |         |
| Canon    | VB-S800D   | Ver. 1.0.0<br>(Build Number: 2826:36) | M-JPEG                   | 1        | 1920x1080      | 1-way | 1/1    | -   | -              | -    | Yes*                 |         |
| Dlink    | DCS-C43W-20F/B02   | V4.02.R11.000<br>00523.12010          | H.264                    | 1        | 1280x720       | -     | -      | -   | Yes            | -    | Yes*                 |         |
| Dlink    | DCS-C90R-10F/A0  | V4.02.R11.000<br>01900.10010          | *2                       | 1        | *2             | *2    | *2     | *2  | *2             | *2   | *2                   |         |
| Histream | HH9803C-L16  | v2.3.1.4.0.22                         | M-JPEG<br>H.264<br>MPEG4 | 1        | 704x480        | -     | -      | Yes | -              | -    | Yes*                 |         |
| Note:    | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set.<br>2. MPEG-4 cannot use due to camera firmware issue.<br>3. The value of MJPEG quality isn't synchronized with camera's web  |                                       |                          |          |                |       |        |     |                |      |                      |         |
| Jetstor  | JV-B1201R  | V6.03.05-<br>CGBO24200-<br>1210       | M-JPEG<br>H.264          | 1        | 1920x1080      | -     | -      | -   | -              | -    | Yes*                 |         |
| Note:    | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set.<br>2. 2nd and 3rd cannot set to different resolution.  |                                       |                          |          |                |       |        |     |                |      |                      |         |
| Jetstor  | JV-OSD0200-X20   | V6.03.05-<br>CGBO24200-<br>1228       | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -   | -              | -    | Yes*                 |         |
| LILIN    | LD2222   | 1.1.16                                | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | *2     | -   | Yes            | -    | Yes*                 |         |
| Note:    | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)<br>2. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)<br>3. Motion detection may always trigger continuously. (Camera firmware issue) |                                       |                          |          |                |       |        |     |                |      |                      |         |
| LILIN    | IPD2322E SX  | 1.0.60                                | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes*                 |         |
| Note:    | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set. (ONVIF limitation)<br>2. Due to Onvif restriction, dependency between framerate and bitrate cannot be showed. (ONVIF limitation)   |                                       |                          |          |                |       |        |     |                |      |                      |         |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Brand   | Device Name   | Tested Firmware | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|---------|---|-----------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| LILIN   | IPS518  | 1.2.02          | H.264 MJPEG  | 1        | 1920x1080      | *2    | *2     | *2  | *2             | -    | Yes*                 |         |
| Note:   | 1. The range of bitrate and frame rate may be different from what camera web shows. (Camera Firmware issue)<br>2. Image setting, digital input, talk and motion detection do not function. (Camera Firmware issue)<br>3. Zoom and focus do not function normally. (Camera Firmware issue)<br>4. Video settings may not be synchronized to camera web. (Camera Firmware issue)<br>5. Audio is not available under TCP and UDP. (Camera performance limitation)<br>6. Autodetection and camera search do not function. (Generic model)<br>7. The camera supports 4 streams, while only 3 streams could be displayed. (NUUO server limitation)<br>8. Some frame rates and bit rates cannot be set. (ONVIF limitation)<br>9. Dependency between frame rate and bitrate is not shown. (ONVIF limitation)<br>10. Flip and mirror are not supported. (ONVIF limitation)  |                 |              |          |                |       |        |     |                |      |                      |         |
| ONVIF   | ONVIF   | -               | -            | -        | -              | -     | -      | -   | -              | -    | -                    |         |
| Note:   | ONVIF specification must be fully implemented by camera vendors in order to be supported by NUUO software. To confirm the compatibility, it is recommended to execute testing prior to any further usage.<br>1. Some frame rates and bit rates cannot be set. (ONVIF limitation)<br>2. Dependency between frame rate and bit rate cannot be shown. (ONVIF limitation)<br>3. The bit rate mode cannot be switched among constant bit rate (CBR), variable bit rate (VBR) and average bit rate (AVR). (ONVIF limitation)<br>4. The pin index of DI and DO may be different from camera spec since the indexing rule is unknown. (ONVIF limitation)<br>5. The maximum numbers of DI and DO are 4. (NUUO software limitation)<br>6. Talk function is not supported if the camera does not support backchannel. (ONVIF limitation)<br>7. May not support http but software shows the http option at protocol setting. (NUUO software limitation) |                 |              |          |                |       |        |     |                |      |                      |         |
| Qihan   | QH-NV431  | v2.3.8.1        | H.264        | 1        | 1920x1080      | -     | -      | -   | -              | -    | Yes*                 |         |
| Note:   | 1. Due to Onvif restriction, some bit rates cannot be set.<br>2. 2nd or 3rd stream cannot be connected when 1st stream under high bitrate.  |                 |              |          |                |       |        |     |                |      |                      |         |
| Stanley | 1310-F  | NSD-1.0.9.58    | H.264        | 1        | 1280x720       | -     | -      | -   | -              | -    | Yes*                 |         |
| TVT     | TD9412M   | 3.4.0Beta6      | H.264        | 1        | 1280x720       | 1-way | -      | -   | -              | -    | Yes*                 |         |
| TVT     | TD9422M   | 3.4.0Beta6      | H.264        | 1        | 1920x1080      | 1-way | -      | -   | -              | -    | Yes*                 |         |
| Tyco    | ADVEIPSD 37AH   | V1.04_STD-1     | H.264        | 1        | 704x480        | 1-way | 1/1    | Yes | Yes            | -    | Yes*                 |         |
| Note:   | 1. Due to Onvif restriction, some frame rate and bit rates cannot be set.<br>2. Camera web MJPEG has no quality options.  |                 |              |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Brand | Device Name                                  | Tested Firmware                 | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------|--|---------------------------------|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Wapa  | HH9803BL<br>-<br>C7HA1080<br>IL-T18C-<br>L16 | V6.03.05-<br>CGBO24200-<br>1210 | M-JPEG<br>H.264 | 1        | 1920x1080      | -     | -      | -   | -              | -    | Yes*                 |         |

Note:

1. Due to Onvif restriction, some bit rates cannot be set.
2. Framerate setting has no effect on streaming.



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| BB-HCE481   |  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM100   | 1.3  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| BB-HCM110   | 1.3  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| BB-HCM311   |  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM331   | 1.3  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| BB-HCM371   |  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM381   | 1.3  | M-JPEG                   | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| BB-HCM403   |  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM511   | 1.3  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| BB-HCM515   | 3.11R01  | MPEG4<br>M-JPEG          | 1        | 1280x1024      | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | No audio support in M-JPEG @ 1280x1024.                            |                          |          |                |       |        |     |                |      |                      |                     |
| BB-HCM527   |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM531   | 3.51R00  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  |                     |
| BB-HCM547   | 3.60R00  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | The camera is tested by link, so some functions can't be verified. |                          |          |                |       |        |     |                |      |                      |                     |
| BB-HCM580   |  | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM581   | 1.3  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| BB-HCM701   | 4.30R00  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |                     |
| BB-HCM705   | 4.11R01  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |                     |
| BB-HCM715   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| BB-HCM735   | 1.05-03<br>(100303-02)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |                     |
| BB-HCS301   |  | M-JPEG                   | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| BB-ST162    | refer to WV-ST162(FW 1 Application: 1.81<br>2 Image data: 1.04) | H264 MJPEG         | 1        | 800x600        | -     | 3/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| BB-SW172    | refer to WV-ST162(FW 1 Application: 1.81<br>2 Image data: 1.04) | H264 MJPEG         | 1        | 800x600        | -     | 3/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| BL-C1       |   | M-JPEG             | 1        | 640x480        | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| BL-C10      |   | M-JPEG             | 1        | 640x480        | -     | -      | Yes | Yes            | Yes  | Yes                  | Supported by design |
| BL-C101     | 3.52R00   | MPEG4 M-JPEG       | 1        | 640x480        | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |                     |
| BL-C111     | 3.10R01   | MPEG4 M-JPEG       | 1        | 640x480        | 1-way | -      | Yes | Yes            | Yes  | Yes                  |                     |
| BL-C121     | 3.52R00   | MPEG4 M-JPEG       | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| BL-C131     |   | MPEG4 M-JPEG       | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| BL-C140     | 3.51R01   | MPEG4 M-JPEG       | 1        | 640x480        | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| BL-C160     | 3.51R01   | MPEG4 M-JPEG       | 1        | 640x480        | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| BL-C20      |   | M-JPEG             | 1        | 640x480        | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| BL-C210     | 4.31R00   | H.264 MPEG4 M-JPEG | 1        | 640x480        | 1-way | -      | Yes | Yes            | Yes  | Yes                  |                     |
| BL-C230     |   | H.264 MPEG4 M-JPEG | 1        | 640x480        | 1-way | -      | Yes | Yes            | Yes  | Yes                  | Supported by design |
| BL-C30      |   | M-JPEG             | 1        | 640x480        | -     | -      | Yes | Yes            | Yes  | Yes                  | Supported by design |
| BL-VP101    | Application: 1.67   | H264 MJPEG         | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  |                     |
| BL-VP104    | Application: 1.67   | H264 MJPEG         | 1        | 1280x720       | -     | -      | -   | Yes            | -    | Yes                  |                     |
| BL-VP104W   | refer BL-VP104(FW Application: 1.67)                            | H264 MJPEG         | 1        | 1280x720       | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| BL-VT164    | Application: 1.81   | H264 MJPEG         | 1        | 1280x720       | 1-way | -      | Yes | Yes            | -    | Yes                  |                     |



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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| BL-VT164W   | refer BL-VT164(FW Application: 1.81)   | H264 MJPEG               | 1        | 1280x720       | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| KX-HCM110   |  | M-JPEG                   | 1        | 640x480        | 1-way | 2/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| KX-HCM280A  |  | M-JPEG                   | 1        | 640x480        | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| DG-GXE100   | 2.02   | H.264                    | 1        | 720x480        | -     | -      | *2  | Yes            | *2   | Yes*                 |                     |
| DG-NF282    |  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | -                    | Supported by design |
| DG-NF302    | 1.5  | MPEG4 M-JPEG             | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | -                    | Supported by design |
| DG-NP240    |  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | -                    | Supported by design |
| DG-NP244    |  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |
| DG-NP304    | 1.5  | MPEG4 M-JPEG             | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |
| DG-NS202    |  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| DG-NS202A   | 2.6  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  |                     |
| DG-NS950    | 1.5  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| DG-NS954    | 1.5  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| DG-NW960    | 1.5  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| DG-NW964    | 1.5  | MPEG4 M-JPEG             | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| DG-SC385    | Refer to WV-SC385<br>1 Application: 1.66<br>2 Driver: 1.39<br>3 Image data: 1.09 | M-JPEG<br>MPEG4<br>H.264 | 1        | 1280x960       | *2    | *2     | Yes | Yes            | -    | Yes                  | Supported by design |
| DG-SF132    | Refer to WV-SP102(FW 1 Application: 1.81<br>2 Image data: 1.03)                  | H.264<br>M-JPEG          | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |



- : not available on camera  
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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| DG-SF334    | 1.03<br>1.05   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| Note:       | Disable H.264 and MPEG4 will get MJPEG stream playing more smoothly. |                          |          |                |       |        |     |                |      |                      |                     |
| DG-SP102    | Refer to WV-SP102(FW 1 Application: 1.81 2 Image data: 1.03)         | H.264<br>M-JPEG          | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| DG-SW155    | Refer to WV-SW155/M  | H.264<br>M-JPEG          | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| K-EF134L    | V2.42   | H.264<br>M-JPEG          | 1        | 1280x960       | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. The bit-rate values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)<br>2. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)<br>3. When format is MJPEG, and resource is too much, the image is not complete. (Camera performance limitation)<br>4. UPnP search fail. (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| K-EW114L    | 2.420.PS00.0.T,<br>build:2014-09-19   | H.264<br>M-JPEG          | 1        | 1280x960       | -     | -      | -   | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. The bit-rate values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO Server limitation)<br>2. Video parameter setting and rotate function may result in failure by Day/Night profile. (Camera Firmware issue)<br>3. When format is MJPEG, and resource is too much, the image is not complete. (Camera performance limitation)<br>4. The bitrate ranges of server are different from camera web while image format is MJPEG.(Camera Firmware issue) |                          |          |                |       |        |     |                |      |                      |                     |
| WJ-GXE500   | 1.03  | H.264<br>MPEG4<br>M-JPEG | 4        | 720x480        | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| Note:       | Motion detection works abnormally when "face detection" function is enabled.<br>Not support PTZ currently.  |                          |          |                |       |        |     |                |      |                      |                     |
| WJ-NT304    | 1.04  | M-JPEG                   | 4        | 640x480        | -     | -      | Yes | -              | -    | Yes                  |                     |
| WJ-NT314    |   | M-JPEG                   | 4        | 640x480        | 1-way | -      | Yes | -              | -    | Yes                  | Supported by design |
| WV-NF284    |   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |
| WV-NF302    | 1.40E4_1.06   | MPEG4<br>M-JPEG          | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| WV-NM100    |   | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | -      | Yes | -              | -    | Yes                  | Supported by design |
| WV-NP1000   |   | M-JPEG                   | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |
| WV-NP1004   | 1.21  | M-JPEG                   | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| WV-NP240    |   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |
| WV-NP244    |   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | -    | Yes                  | Supported by design |
| WV-NP304    | 1.50E5_1.06   | MPEG4<br>M-JPEG          | 1        | 1280x960       | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| WV-NP472    |   | M-JPEG                   | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Supported by design |
| WV-NP502    | 1.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| WV-NS202    |   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|---------|------|----------------|------|----------------------|---------------------|
| WV-NS202A   | 2.6  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -       | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-NS324    |  | M-JPEG                   | 1        | 640x480        | -     | -       | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-NS950    | 1.5  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -       | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-NS954    | 1.06E0   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -       | Yes  | Yes            | -    | Yes                  |                     |
| Note:       | Audio is abnormal in MPEG4 format.   |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SC384    | 1.46   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 0~3/0~1 | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SC385    | Application:<br>2.10 Driver:<br>1.54   | H.264                    | 1        | 1280x960       | 1-way | 3/1     | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Brightness value may not sync with web. (Camera Firmware issue)<br>2. Bit Rate Control (Transmission priority) only support Constant bit rate & Frame rate.(NUUO server limitation)<br>3. The flip status on camera web is opposite to server.(Camera Firmware issue) |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SC386    | 1 Application:<br>1.44<br>2 Driver: 1.12<br>3 Image data:<br>1.05  | M-JPEG<br>MPEG4<br>H.264 | 1        | 1280x960       | 1-way | 0~3/0~1 | Yes  | Yes            | -    | Yes                  |                     |
| WV-SF132    | Refer to WV-SP102(FW 1 Application:<br>1.81<br>2 Image data:<br>1.03)  | H.264<br>M-JPEG          | 1        | 640x480        | -     | -       | -    | Yes            | -    | Yes                  | Supported by design |
| WV-SF135    | Refer to WV-SW155/M  | H.264<br>M-JPEG          | 1        | 1280x960       | -     | -       | -    | Yes            | -    | Yes                  | Supported by design |
| WV-SF332    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 0~1/0~1 | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SF335    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 0~1/0~1 | Yes  | Yes            | -    | Yes                  | Supported by design |
| Note:       | WV-SF355 include WV-SF335E   |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SF336    | 1.05   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes  | Yes            | -    | Yes                  |                     |
| Note:       | Motion detection works abnormally when "face detection" function is enabled.   |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SF342    | Refer to WV-SF332  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SF346    | Refer to WV-SF336  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SF438    | 1 Application:<br>1.04<br>2 Image data:  | H264<br>MJPEG            | 1        | 2048x1536      | 1-way | 3/1     | -    | Yes            | -    | Yes                  |                     |
| Note:       | Fisheye camera   |                          |          |                |       |         |      |                |      |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| WV-SF539    | 1 Application:<br>1.60<br>2 Image data:<br>2.34   | H.264           | 1        | 1920x1080      | *2    | *2     | -   | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. Brightness value may not sync with web. (Camera Firmware issue)<br>2. We tested on camera web with the following parameters, and found camera will disconnect or image will delay. The following link lists some issues:<br><a href="https://docs.google.com/spreadsheets/d/1Ri44tFD29DKYhf-s6VQhDImfYycbLV8nuhpASViksw/edit#gid=0">https://docs.google.com/spreadsheets/d/1Ri44tFD29DKYhf-s6VQhDImfYycbLV8nuhpASViksw/edit#gid=0</a><br>3. The 2nd stream cannot be set and connect while the image mode is 3mega pixel. (Camera Firmware issue)  |                 |          |                |       |        |     |                |      |                      |                     |
| WV-SFN310   | 1.71  | H.264           | 1        | 1280x960       | 1-way | 3/1    | -   | Yes            | -    | Yes*                 |                     |
| Note:       | 1. Setting higher bitrate may be fail (Camera firmware issue)<br>2. When 60fps mode, H.264(1) bitrate cannot be set less than 1024 (Camera firmware issue)<br>3. No Audio when audio codec is AAC (NUUO server limitation)<br>4. Bitrate list range is not synchronize with web (Camera firmware issue)<br>5. MJPEG framerate is affected by h264 stream. If h264 stream(1 or 2) open, MJPEG support 5 fps the most. (Camera performance limitation)<br>6. Brightness value may not sync with web. (Camera firmware issue)<br>7. Motion event snapshot resolution sync with stream3 instead of stream1. (Camera firmware issue)   |                 |          |                |       |        |     |                |      |                      |                     |
| WV-SFN310J  | Refer to WV-SFN310(1.71)  | H.264           | 1        | 1280x960       | 1-way | 3/1    | -   | Yes            | -    | Yes*                 | Supported by design |
| WV-SFN311   | Refer to WV-SFN310(1.71)  | H.264           | 1        | 1280x960       | 1-way | 3/1    | -   | Yes            | -    | Yes*                 | Supported by design |
| WV-SFV481   | 1.12  | H.264           | 1        | 2992x2992      | 1-way | 3/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | Fisheye camera with manual calibration in Crystal<br>1. Brightness Value may not sync with Camera Web Interface. (Camera Firmware issue)<br>2. Audio out 16Kbps was not supported. (NUUO server limitation)<br>3. Digital in and Digital out can not trigger continuously. (Camera Firmware issue)<br>4. Camera may not achieve maximum FPS. (Camera performance limitation)<br>5. The range of bitrate may not sync with camera web. (Camera Firmware issue)<br>6. The bit-rate & FPS values in the combo box are not all valid, users have to choose a valid one (the range can be get from the web of the device) while setting. (NUUO server limitation)<br>7. Snapshot resolution may not sync with display resolution. (NUUO server limitation) |                 |          |                |       |        |     |                |      |                      |                     |
| WV-SFV611L  | Refer to WV-SFV631L(V1.83)  | H.264           | 1        | 2048x1536      | *2    | *2     | -   | Yes            | *2   | Yes*                 | Supported by design |
| WV-SFV631L  | 1.83  | H.264           | 1        | 2048x1536      | *2    | *2     | -   | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. The bitrate list doesn't match the camera web. (Camera Firmware issue)<br>2. Zoom & focus can't be used. (Camera Firmware issue)<br>3. Brightness value may not sync with web. (Camera Firmware issue)<br>4. Bit Rate Control (Transmission priority) only support Constant bit rate & Frame rate. (NUUO server limitation)  |                 |          |                |       |        |     |                |      |                      |                     |
| WV-SFV631LT | Refer to WV-SFV631L(V1.83)  | H.264           | 1        | 2048x1536      | *2    | *2     | -   | Yes            | *2   | Yes*                 | Supported by design |
| WV-SP102    | 1 Application:<br>1.81<br>2 Image data:   | H.264<br>M-JPEG | 1        | 640x480        | -     | -      | -   | Yes            | -    | Yes                  | Tested by link      |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|---------|-----|----------------|------|----------------------|---------------------|
| WV-SP105    | 1 Application:<br>1.61<br>2 Image data:<br>2.01  | H.264<br>M-JPEG          | 1        | 1280x960       | -     | -       | -   | Yes            | -    | Yes                  |                     |
| WV-SP302    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes | Yes            | -    | Yes                  | Supported by design |
| WV-SP305    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes | Yes            | -    | Yes                  | Supported by design |
| WV-SP306    | 1.04   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes | Yes            | -    | Yes                  |                     |
| Note:       | Motion detection works abnormally when "face detection" function is enabled.   |                          |          |                |       |         |     |                |      |                      |                     |
| WV-SP508    | 1Application:<br>1.05<br>2 Image data:<br>2.05   | MJPEG<br>H264            | 1        | 2048x1536      | -     | 0~1/0~1 | -   | Yes            | -    | Yes                  | Tested by link      |
| WV-SP509    | 1Application:<br>1.07<br>2 Image data:<br>2.11   | MJPEG<br>H264            | 1        | 2048x1536      | 1-way | 0~3/0~1 | -   | Yes            | -    | Yes                  |                     |
| WV-SPN311   | V1.71  | H.264                    | 1        | 1280x720       | 1-way | 3/1     | -   | Yes            | Yes  | Yes*                 |                     |
| WV-SPN631   | Refer to WV-SFV631L(V1.83)   | H.264                    | 1        | 2048x1536      | *2    | *2      | -   | Yes            | *2   | Yes*                 | Supported by design |
| WV-SPW631L  | Refer to WV-SFV631L(V1.83)   | H.264                    | 1        | 2048x1536      | *2    | *2      | -   | Yes            | *2   | Yes*                 | Supported by design |
| WV-ST162    | 1 Application:<br>1.81<br>2 Image data:<br>1.04  | H264<br>MJPEG            | 1        | 800x600        | -     | 3/1     | Yes | Yes            | -    | Yes                  | Tested by link      |
| WV-ST165    | 1Application:<br>1.44<br>2 Image data:<br>1.03   | MJPEG<br>H264            | 1        | 1280x960       | 1-way | 0~3/0~1 | Yes | Yes            | -    | Yes                  | Tested by link      |
| Note        | Enable "VMD addition information" on camera web and reboot to obtain Morion Detection Info   |                          |          |                |       |         |     |                |      |                      |                     |
| WV-SW152    | Refer to WV-SW155  | H.264<br>M-JPEG          | 1        | 1280x960       | 1-way | -       | -   | Yes            | -    | Yes                  | Supported by design |
| WV-SW155    | 2.02   | H.264                    | 1        | 1280x720       | -     | *2      | -   | Yes            | *2   | Yes*                 |                     |
| Note:       | Brightness value may not sync with web. (Camera Firmware issue)  |                          |          |                |       |         |     |                |      |                      |                     |
| WV-SW155/M  | 1.03   | H.264<br>M-JPEG          | 1        | 1280x960       | 1-way | -       | -   | Yes            | -    | Yes                  |                     |
| WV-SW158    | 1.07   | M-JPEG                   | 1        | 2048x1536      | 1-way | -       | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Mirror is not supported (Camera firmware issue)<br>2. It may have chance to fail to set higher bitrate (Cammera firmware issue) |                          |          |                |       |         |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|---------|------|----------------|------|----------------------|---------------------|
| WV-SW172    | refer to WV-ST162(FW1 Application: 1.81<br>2 Image data: 1.04)   | H264<br>MJPEG            | 1        | 800x600        | -     | 3/1     | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SW174W   | 1.81   | MJPEG<br>H264            | 1        | 1280x960       | 1-way | 3/1     | Yes  | Yes            | Yes  | Yes                  |                     |
| Note:       | WV-SW174W Camera constraint:<br>MJPEG framerate is affected by h264 stream. If h264 stream(1 or 2) open, MJPEG support 5 fps the most.   |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SW175    | Refer to ST165   | MJPEG<br>H264            | 1        | 1280x960       | 1-way | 0~3/0~1 | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SW314    | Refer to SW316/L   | MJPEG<br>H264            | 1        | 1280x960       | -     | -       | -    | Yes            | -    | Yes                  | Supported by design |
| WV-SW316/L  | 1Application: 1.46<br>2 Image data: 1.04   | MJPEG<br>H264            | 1        | 1280x960       | 1-way | 0~1/0~1 | -    | Yes            | -    | Yes                  | Tested by link      |
| Note:       | WV-SW316/L include WV-SW316  |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SW352    | Refer to WV-SW352  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | -    | Yes            | -    | Yes                  | Supported by design |
| WV-SW355    | 1.41   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | 0~1/0~1 | -    | Yes            | -    | Yes                  |                     |
| WV-SW395    | Refer to WV-SC385(Application: 1.01,   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | 1-way | -       | Yes  | Yes            | -    | Yes                  | Supported by design |
| WV-SW396    | 1.44   | M-JPEG<br>MPEG4<br>H.264 | 1        | 1280x960       | 1-way | 0~3/0~1 | Yes  | Yes            | -    | Yes                  |                     |
| Note:       | WV-SW396 support continuous PTZ  |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SW458    | V1.60  | H.264                    | 1        | 1920x1080      | 1-way | 3/1     | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | Fishey camera with manual calibration in Crystal<br>1. G726/16Kbps has noise. (NUUO server limitation)<br>2. Brightness value may not sync with web.(Camera Firmware issue)<br>3. MountType and DispalyMode UI only support English. (NUUO server limitation)<br>4. Camera is unable to achieve maximum FPS. (Camera performance limitation)<br>5. Setting higher bitrate may be fail (Cammera Firmware issue)<br>6. Motion event snaphot resolution may not sync with current stream (NUUO server limitation) |                          |          |                |       |         |      |                |      |                      |                     |
| WV-SW558    | Refer to SP509   | MJPEG<br>H264            | 1        | 2048x1536      | -     | 0~3/0~1 | -    | Yes            | -    | Yes                  | Supported by design |
| WV-SW558    | Refer to SP509   | MJPEG<br>H264            | 1        | 2048x1536      | 1-way | 0~3/0~1 | -    | Yes            | -    | Yes                  | Supported by design |
| WV-SW598    | 2.07   | H.264                    | 1        | 1920x1080      | *2    | *2      | Yes* | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. Brightness value may not sync with web.(Camera Firmware issue)<br>2. The flip status on camera web is opposite to server.(Camera Firmware issue)<br>3.The move function can not make live view to center. (Camera Firmware issue)   |                          |          |                |       |         |      |                |      |                      |                     |
| WV-NW484    | 1.10ED   | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | -       | -    | Yes            | -    | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| WV-NW502S   | 1.00            | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | -      | -   | Yes            | -    | Yes                  |                     |
| WV-NW960    | 1.5             | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |
| WV-NW964    |                 | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | Yes | Yes            | -    | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|--|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| D5118       | Software Version :<br>1.6.13.9310-A1.4657<br>Hardware Version :<br>9310-A1.1-10345   | H264<br>JPEG   | 1        | 1280x960       | -     | -      | Yes | -              | -    | Yes                  |         |
| Note:       | Do not support to "clear all" preset points.   |                |          |                |       |        |     |                |      |                      |         |
| D5220       | 1.8.3.8-20121119.9320-A1.8614  | H264<br>JPEG   | 1        | 1920x1080      | *1    | *1     | Yes | *1             | -    | Yes                  |         |
| Note:       | 1. D5220 preset point name can't be changed, and would not sync with camera's web.<br>2. fps would not reach its setting when resolution or quality is high.<br>3. Need turn off second profile on web then parameter setting can be changed normally.<br>4. D5220 would cause Mainconsole unstable when changing protocol. (UDP->HTTP, HTTP->UDP) |                |          |                |       |        |     |                |      |                      |         |
| IBPS110-ER  | 3N19-A1.1-40123  | H.264<br>MJPEG | 1        | 800x600        | *2    | *2     | Yes | *2             | -    | Yes*                 |         |
| Note:       | 1. Talk can't be used. (Camera Firmware issue)<br>2. Due to onvif restriction, some bitrate and quality cannot be set. (Camera Firmware issue)   |                |          |                |       |        |     |                |      |                      |         |
| IL10        | 1.8.2.4.8310-03.9119   | H264<br>JPEG   | 1        | 1280x720       | -     | -      | -   | *1             | -    | Yes                  |         |
| Note:       | 1. fps would not reach its setting when resolution or quality is high.   |                |          |                |       |        |     |                |      |                      |         |
| IM10        | 1.8.2.18-20121109-1.8272-O1.8503   | H264<br>JPEG   | 1        | 1280x960       | *1    | -      | Yes | *1             | -    | Yes                  |         |
| Note:       | 1. fps would not reach its setting when resolution or quality is high.<br>2. Disable second profile on web then parameter setting can be changed normally.   |                |          |                |       |        |     |                |      |                      |         |
| IMPS110-1   | 03.29.37   | H.264<br>MJPEG | 1        | 800x600        | *2    | *2     | Yes | *2             | *2   | Yse*                 |         |
| Note:       | 1. Due to onvif restriction, some bitrate and quality cannot be set. (Camera Firmware issue)<br>2. Talk can't be used. (Camera Firmware issue)   |                |          |                |       |        |     |                |      |                      |         |



**PRISMA BYTES**  
Total Security Solutions for your needs

- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name       | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks           |
|-------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|-------------------|
| <b>PBY-Hi82</b>   | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>PBY-H7982</b>  | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>PBY-H7A82</b>  | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>PBY-H7B82</b>  | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>PBY-H7B82M</b> | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>PBY-H79882</b> | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>PBY-H7B882</b> | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Support by design |
| Note:             | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |







|                    |   |                |   |           |       |     |   |     |     |      |                      |
|--------------------|---|----------------|---|-----------|-------|-----|---|-----|-----|------|----------------------|
| <b>PBY-HS26A</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)</p> <p>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)</p> <p>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)</p> <p>4. Audio has noise. (Camera Firmware issue)</p> |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HS855</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)</p> <p>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)</p> <p>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)</p> <p>4. Audio has noise. (Camera Firmware issue)</p> |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HV26A</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)</p> <p>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)</p> <p>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)</p> <p>4. Audio has noise. (Camera Firmware issue)</p> |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-H626A</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-H7926AM</b> | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-H7A855</b>  | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HB855</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HC26A</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HC855</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HD26A</b>   | VE1.0.20.10<br>_Y   | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:              | <p>1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)</p> <p>2. Audio codec only can choose G711. (Camera Firmware issue)</p> <p>3. Upnp will find wrong model. (Camera Firmware issue)</p>   |                |   |           |       |     |   |     |     |      |                      |



|                  |  |                |   |           |       |     |   |     |     |      |                      |
|------------------|--|----------------|---|-----------|-------|-----|---|-----|-----|------|----------------------|
| <b>PBY-HS26A</b> | VE1.0.20.10<br>_Y  | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:            | 1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)<br>2. Audio codec only can choose G711. (Camera Firmware issue)<br>3. Upnp will find wrong model. (Camera Firmware issue) |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HS855</b> | VE1.0.20.10<br>_Y  | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:            | 1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)<br>2. Audio codec only can choose G711. (Camera Firmware issue)<br>3. Upnp will find wrong model. (Camera Firmware issue) |                |   |           |       |     |   |     |     |      |                      |
| <b>PBY-HV26A</b> | VE1.0.20.10<br>_Y  | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Support<br>by design |
| Note:            | 1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)<br>2. Audio codec only can choose G711. (Camera Firmware issue)<br>3. Upnp will find wrong model. (Camera Firmware issue) |                |   |           |       |     |   |     |     |      |                      |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name          | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks           |
|----------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|-------------------|
| <b>DAI-310IPEH04</b> | 3.4.2   | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 |                   |
| Note:                | 1. Auto detect fail.(Camera Firmware issue)<br>2. Can not change CBR/VBR. (Camera Firmware issue)<br>3. Bitrate & firmware list can not synchronize with web. (Camera Firmware issue)<br>4. Quality name can not synchronize with web. (Camera Firmware issue)<br>5. Auto detect & upnp search can not be used. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |                   |
| <b>DAI-310IPEHVF</b> | Refer to DAI-310IPEH04(3.4.2)   | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 | Support by design |
| <b>DI-310IPEHVF</b>  | Refer to DAI-310IPEH04(3.4.2)   | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 | Support by design |
| <b>I3-310IPEH04</b>  | Refer to DAI-310IPEH04(3.4.2)   | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 | Support by design |
| <b>I4-310IPEHVF</b>  | Refer to DAI-310IPEH04(3.4.2)   | H.264        | 1        | 2048x1536      | -     | -      | -   | *2             | *2   | Yes*                 | Support by design |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| Generic     | v1.8.0601.10<br>01.110.0.36.<br>1.0   | H.264<br>MJPEG | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | -    | Yes*                 |         |
| Note:       | 1. Audio in with Raw PCM codec are not supported.(Camera firmware issue)<br>2. Home function are not supported. (Camera firmware issue)<br>3. The streaming has broken under MJPEG format.(Camera firmware issue)<br>4. Due to Onvif restriction, some frame rate and bit rates cannot be set.(Camera performance limitation) |                |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution                | Audio | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|-------------------------------|-------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SNB-1000    | v1.07_110407   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480                       | 1-way | 1/1    | -   | Yes            | -                  | Yes                  |                     |
| Note:       | This is POE camera, but the device is unstable without AC power connection. We suggest connecting with AC power.   |                          |          |                               |       |        |     |                |                    |                      |                     |
| Note:       | I/O and MD is unstable, which is a known issue reported by Samsung. They won't do any change since the camera is discontinued.   |                          |          |                               |       |        |     |                |                    |                      |                     |
| SNB-1001    | 1.00_111226  | H.264<br>M-JPEG          | 1        | 640x480                       | 1-way | 1/0    | -   | Yes            | -                  | Yes                  | Test by link        |
| SNB-2000    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576                       | -     | 2/2    | -   | -              | -                  | -                    | Supported by design |
| SNB-3000    |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576                       | 1-way | 2/2    | -   | -              | -                  | -                    | Supported by design |
| SNB-3002    | refer to SND-3082/F (FW 2.10_130416)   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576(PAL)<br>704x480(NTSC) | 1-way | 1/1    | -   | Yes            | Yes                | yes                  | Supported by design |
| SNB-5000    | v1.33_110218   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024                     | 1-way | 1/1    | -   | Yes            | -                  | Yes                  |                     |
| SNB-5000A   | refer to SND5080 (FW 3.10_130416)  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024                     | 1-way | 1/1    | -   | Yes            | Yes                | -                    | Supported by design |
| SNB-5001    | 1.00_120521  | H.264<br>M-JPEG          | 1        | 1280x1024                     | -     | 1/0    | -   | Yes            | -                  | Yes                  |                     |
| SNB-5003    | 1.12_131031  | H.264<br>M-JPEG          | 1        | 1280x1024                     | *2    | *2     | *2  | Yes            | -                  | Yes                  | Test by link        |
| SNB-5004    | 1.12_131031  | H.264<br>M-JPEG          | 1        | 1280x1024                     | 1-way | 1/1    | Yes | Yes            | -                  | Yes                  |                     |
| note:       | For SNB-5003, SNB-5004, SND-5083, SND-5084 and SNV-5084:<br>1. Camera can support 128 preset points, but we are only support 64 preset points.<br>2. Before starting "talk", we do check that the talk's gain is greater than zero. If it is 0, we are going to adjust gain to default value 5.<br>3. If user do change audio setting in the website, then the previous connection will be interrupted and re-connect. |                          |          |                               |       |        |     |                |                    |                      |                     |
| SNB-6003    | refer to SND-6083(FW 1.00_130412)  | H264<br>MJPEG            | 1        | 1920x1080                     | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |
| SNB-6004    | Refer to SND-6084(SNV-6084R-V3.01_140804)  | H264<br>MJPEG            | 1        | 1920x1080                     | *2    | *2     | Yes | Yes            | *2                 | Yes*                 | Supported by design |
| SND-6011R   | 1.11_131011  | H.264<br>M-JPEG          | 1        | 1920x1080                     | -     | *2     | -   | Yes            | -                  | Yes*                 |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format       | Video Ch | Max Resolution                | Audio | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------------|----------|-------------------------------|-------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SNB-7000    | Refer to SND-7080  | H.264 M-JPEG       | 1        | 2048x1536                     | 1-way | 1/1    | -   | Yes            | -                  | Yes                  | Supported by design |
| SNB-7001    | Refer to SND-7011  | H.264 M-JPEG       | 1        | 2048x1536                     | -     | 1/0    | -   | Yes            | -                  | Yes                  | Supported by design |
| SNB-7002    | 1.06_130402  | H.264 M-JPEG       | 1        | 2048x1536                     | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| note:       | Sometimes can't get correct UI setting because camera response time too long.  |                    |          |                               |       |        |     |                |                    |                      |                     |
| SNC-B2315   | 2.01   | MPEG4 M-JPEG       | 1        | 720x576                       | 1-way | 2/2    | -   | Yes            | -                  | -                    |                     |
| SNC-B2331   | v1.00_090810   | H.264 MPEG4 M-JPEG | 1        | 720x576                       | -     | 2/2    | -   | Yes            | -                  | -                    |                     |
| SNC-B2335   | v1.10_100129   | H.264 MPEG4 M-JPEG | 1        | 720x576                       | 1-way | 2/2    | -   | Yes            | -                  | -                    |                     |
| SNC-B5368   | v1.00_091001   | H.264 MPEG4 M-JPEG | 1        | 720x576                       | -     | 2/2    | -   | Yes            | -                  | -                    |                     |
| SNC-B5395   | 2.10   | MPEG4 M-JPEG       | 1        | 720x576                       | 1-way | 2/2    | -   | Yes            | -                  | -                    |                     |
| SNC-B5399   | v1.10_091120   | H.264 MPEG4 M-JPEG | 1        | 720x576                       | 1-way | 2/2    | -   | Yes            | -                  | -                    |                     |
| SNC-C6225   | 1.01   | MPEG4 M-JPEG       | 1        | 720x576                       | 1-way | 2/1    | Yes | Yes            | -                  | -                    |                     |
| SNC-C7225   | 1.01   | MPEG4 M-JPEG       | 1        | 720x576                       | 1-way | 2/1    | Yes | Yes            | -                  | -                    | Supported by design |
| SNC-C7478   | v1.01_090625   | MPEG4 M-JPEG       | 1        | 720x576                       | 1-way | 8/4    | Yes | Yes            | -                  | -                    |                     |
| SNC-M300    | v2.11_090729   | MPEG4 M-JPEG       | 1        | 2048x1536                     | 1-way | 2/2    | -   | Yes            | -                  | -                    |                     |
| SND-1010    | v1.07_110407   | H.264 MPEG4 M-JPEG | 1        | 640x480                       | -     | 1/1    | -   | Yes            | -                  | Yes                  |                     |
| Note:       | This is POE camera, but the device is unstable without AC power connection. We suggest connecting with AC power.               |                    |          |                               |       |        |     |                |                    |                      |                     |
| Note:       | I/O and MD is unstable, which is a known issue reported by Samsung. They won't do any change since the camera is discontinued. |                    |          |                               |       |        |     |                |                    |                      |                     |
| SND-1011    | 1.00_111226  | H.264 M-JPEG       | 1        | 640x480                       | -     | 1/0    | -   | Yes            | -                  | Yes                  | Test by link        |
| SND-1080    | 1.00_111226  | H.264 M-JPEG       | 1        | 640x480                       | 1-way | 1/0    | -   | Yes            | -                  | Yes                  | Test by link        |
| SND-3080    |  | H.264 MPEG4 M-JPEG | 1        | 720x576                       | -     | 2/2    | -   | -              | -                  | -                    | Supported by design |
| SND-3082    | Refer to SND-3082/F(2.10_130416)   | H.264 MPEG4 M-JPEG | 1        | 704x576(PAL)<br>704x480(NTSC) | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution                | Audio     | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|-------------------------------|-----------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SND-3082/F  | 2.10_130416   | H.264<br>MPEG4<br>M-JPEG | 1        | 704x576(PAL)<br>704x480(NTSC) | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| SND-5010    | 1.00_120626   | H.264<br>M-JPEG          | 1        | 1280*1024                     | -         | 0/0    | -   | Yes            | -                  | Yes                  |                     |
| SND-5011    | 1.00_120521   | H.264<br>M-JPEG          | 1        | 1280x1024                     | -         | 1/0    | -   | Yes            | -                  | Yes                  |                     |
| SND-5061    | 1.00_120521   | H.264<br>M-JPEG          | 1        | 1280x1024                     | -         | 1/0    | -   | Yes            | -                  | Yes                  |                     |
| SND-5080    | 3.10_130416   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024                     | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| SND-5083    | 1.12_131031<br>refer to SNB-5003  | H.264<br>M-JPEG          | 1        | 1280x1024                     | 1-way     | 1/1    | Yes | Yes            | -                  | Yes                  |                     |
| SND-5084    | 1.12_131031<br>refer to SNB-5004  | H.264<br>M-JPEG          | 1        | 1280x1024                     | 1-way     | 1/1    | Yes | Yes            | -                  | Yes                  |                     |
| SND-6083    | 1.00_130412   | H264<br>MJPEG            | 1        | 1920x1080                     | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| SND-6084    | SNV-6084R-<br>V3.01_140804  | H264<br>MJPEG            | 1        | 1920x1080                     | *2        | *2     | Yes | *2             | *2                 | Yes*                 |                     |
| Note:       | 1. The camera with higher quality and resolution is unable to achieve 30 fps (Camera performance issue) |                          |          |                               |           |        |     |                |                    |                      |                     |
| SND-6084R   | 1.00_130316<br>refer to SNB-6004  | H264<br>MJPEG            | 1        | 1920x1080                     | *2        | *2     | Yes | *2             | -                  | Yes                  | Supported by design |
| SND-7011    | 1.00_120601   | H.264<br>M-JPEG          | 1        | 2048x1536                     | -         | 1/0    | -   | Yes            | -                  | Yes                  |                     |
| Note:       | Sometimes can't get correct UI setting because camera response time too long.                           |                          |          |                               |           |        |     |                |                    |                      |                     |
| SND-7061    | Refer to<br>SND-7011  | H.264<br>M-JPEG          | 1        | 2048x1536                     | -         | 1/1    | -   | Yes            | -                  | Yes                  | Supported by design |
| SND-7080    | v1.10_110819  | H.264<br>M-JPEG          | 1        | 2048x1536                     | 1-way     | 1/1    | -   | Yes            | -                  | Yes                  |                     |
| SND-7082    | 1.00_120824   | H.264<br>M-JPEG          | 1        | 2048x1536                     | 1-way     | 1/1    | -   | Yes            |                    | Yes                  |                     |
| SND-7082/F  | refer to SNB-7002<br>(1.06_130402)  | H.264<br>M-JPEG          | 1        | 2048x1536                     | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| Note:       | Sometimes can't get correct UI setting because camera response time too long.                           |                          |          |                               |           |        |     |                |                    |                      |                     |
| SND-7084    | Refer to<br>SND-7084R(0.51_140116)  | H.264                    | 1        | 2048x1536                     | 1-way     | 1/1    | -   | Yes            | -                  | Yes*                 | Supported by design |
| SND-7084R   | 0.51_140116   | H.264                    | 1        | 2048x1536                     | 1-way     | 1/1    | -   | Yes            | -                  | Yes*                 |                     |
| Note:       | 1.Snapshot's resolution will follow MJPEG stream. (Camera Firmware issue)                               |                          |          |                               |           |        |     |                |                    |                      |                     |
| SND-L6013R  | Refer to<br>SNO-L6083R<br>(1.00_150403)   | H.264<br>M-JPEG          | 1        | 1920x1080                     | *2(1-way) | -      | -   | *2(Yes)        | -                  | Yes*                 | Supported by design |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio     | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------|----------|----------------|-----------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SNF-7010    | 1.00_130806   | H264 MJPEG         | 1        | 2048x1536      | 1-way     | -      | -   | Yes            | -                  | Yes                  |                     |
| Note:       | Fisheye camera  |                    |          |                |           |        |     |                |                    |                      |                     |
| SNF-8010N   | 1.00_140719   | H.264 M-JPEG       | 1        | 2560x2048      | *2        | *2     | -   | *2             | -                  | Yes*                 |                     |
| Note:       | 1. The list of camera's stream 2 and stream 3 frame rate is not synchronized with the one on camera's web.(Camera Firmware issue)<br>2.To get OSD correct value need to reconnect by manual to connect the correct stream after parameters setting.(Camera Firmware issue)  |                    |          |                |           |        |     |                |                    |                      |                     |
| SNO-1080R   | 1.00_120125   | H.264 M-JPEG       | 1        | 640x480        | -         | 1/0    | -   | Yes            | -                  | Yes                  | Test by link        |
| SNO-5080R   | 3.10_130416   | H.264 MPEG4 M-JPEG | 1        | 1280x1024      | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| SNO-6011R   | refer to SND-6011R(1.11_131011)   | H.264 M-JPEG       | 1        | 1920x1080      | -         | *2     | -   | Yes            | *2                 | Yes*                 | Supported by design |
| SNO-L6083R  | 1.00_150403   | H.264 M-JPEG       | 1        | 1920x1080      | *2        | -      | -   | *2             | -                  | Yes*                 |                     |
| Note:       | 1. Frame rate list does not sync with web. (Camera Firmware issue)  |                    |          |                |           |        |     |                |                    |                      |                     |
| SNO-6084    | refer to SND-6083(1.00_130412)  | H264 MJPEG         | 1        | 1920x1080      | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |
| SNO-6084R   | 1.00_130316 refer to SNB-6004   | H264 MJPEG         | 1        | 1920x1080      | *2        | *2     | Yes | *2             | -                  | Yes                  | Supported by design |
| SNO-7080R   | 2.00_121004   | H.264 MJPEG        | 1        | 2048x1536      | *2        | *2     | Yes | Yes            | -                  | Yes*                 | Test by link        |
| SNO-7082R   | refer to SNB-7002 (1.06_130402)   | H.264 M-JPEG       | 1        | 2048x1536      | 1-way     | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |
| SNO-7084R   | 3.00_140915   | H.264              | 1        | 2048x1536      | *2        | 1/1    | Yes | *2             | -                  | Yes*                 |                     |
| Note:       | 1. There is dual streaming rule problem in NAS's AUTO mode. (NUUO server limitation)<br>Ex: stream 2 only supports MJPEG codec and stream 3 supports H.264 and MJPEG codec, but the program's logic is 3 stealing 2 in this situation.<br>2. The actual FPS is not enough to the setting value. (Camera firmware issue)<br>3. We can not connect by TCP or UDP. (Camera firmware issue)<br>4. After the stream 2 and 3 are set the resolution to 320x180, the actual resolution is 320x176. (Camera firmware issue)<br>5. This camera only support Zoom, Focus, AutoFocus with PTZ. |                    |          |                |           |        |     |                |                    |                      |                     |
| SNO-L6013R  | Refer to SNO-L6083R (1.00_150403)   | H.264 M-JPEG       | 1        | 1920x1080      | *2(1-way) | -      | -   | *2(Yes)        | -                  | Yes*                 | Supported by design |
| SNP-3120V   | v1.24_110816  | H.264 MPEG4 M-JPEG | 1        | 704x480        | 1-way     | 2/2    | Yes | Yes            | -                  | Yes                  |                     |
| Note:       | It takes a while to stop after users click stop patrol button.  |                    |          |                |           |        |     |                |                    |                      |                     |
| SNP-3301    | v1.21_110310  | H.264 MPEG4 M-JPEG | 1        | 704x480        | 1-way     | 4/2    | Yes | Yes            | -                  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SNP-3302/H    | Refer to SNP-3371/H/TH  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  | Supported by design |
| SNP-3370      | v1.21_110310  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  |                     |
| Note:         | SNP-3301/SNP-3370: not support QCIF resolution with H.264 through TCP.  |                          |          |                |       |        |     |                |                    |                      |                     |
| SNP-3371/H/TH | S/W :<br>1.01_111104<br>ISP : 1.28  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  | Test by link        |
| SNP-3430H     | v1.10_110818  | H.264<br>MPEG4<br>M-JPEG | 1        | 704x480        | 1-way | 8/4    | Yes | Yes            | -                  | Yes                  |                     |
| Note:         | This is POE camera, but the device is unstable without AC power connection. We suggest connecting with AC power.  |                          |          |                |       |        |     |                |                    |                      |                     |
| Note:         | There is a camera FW issue that we cannot get VBR/CBR info to show quality or bit rate correctly. Please upgrade to FW 1.11_111103 to fix it.   |                          |          |                |       |        |     |                |                    |                      |                     |
| Note:         | Voice cracks in the video exported with ASF format, while the audio of video file is correctly recorded actually. Please choose to export with AVI format.  |                          |          |                |       |        |     |                |                    |                      |                     |
| Note:         | Not support Area Zoom due to protocol limitation.   |                          |          |                |       |        |     |                |                    |                      |                     |
| Note:         | The speed selections of PTZ and focus in LiveView is not synchronized with camera web due to protocol limitation.   |                          |          |                |       |        |     |                |                    |                      |                     |
| SNP-5200H     | v1.02_110603  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 4/2    | -   | Yes            | -                  | Yes                  |                     |
| Note:         | 1. SNP-5200H is compatible with SNP-5200<br>2. Voice cracks in the video exported with ASF format, while the audio of video file is correctly recorded actually. Please choose to export with AVI format.<br>3. Not support Area Zoom due to protocol limitation.<br>4. The speed selections of PTZ and focus in LiveView is not synchronized with camera web due to protocol limitation. |                          |          |                |       |        |     |                |                    |                      |                     |
| SNP-5300      | 1.10_130523   | H.264<br>M-JPEG          | 1        | 1280x1024      | *2    | *2     | Yes | Yes            | Yes                | Yes                  |                     |
| Note:         | When main stream is MJPEG, dual stream will be H264. When main stream is H264, dual stream will be MJPEG  |                          |          |                |       |        |     |                |                    |                      |                     |
| SNP-6200      | V1.00_120302  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  |                     |
| SNP-6200H     | refer to SNP-6200(FW V1.00_120302)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  | Supported by design |
| SNP-6200HP    | refer to SNP-6200(FW V1.00_120302)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  | Supported by design |
| SNP-6200P     | refer to SNP-6200(FW V1.00_120302)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | -                  | Yes                  | Supported by design |
| SNP-6200RH    | 3.02_140722   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes                | Yes*                 |                     |
| Note:         | Camera is unable to achieve maximum FPS with high quality / bitrate. (Camera performance limitation)  |                          |          |                |       |        |     |                |                    |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format       | Video Ch | Max Resolution                | Audio | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------------|----------|-------------------------------|-------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SNP-6320H   | 1.01_141007  | H.264 MJPEG        | 1        | 1920x1080                     | 1-way | 4/2    | Yes | Yes            | *2                 | Yes*                 |                     |
| SNV-1080    | Refer to SNO-1080R(FW 1.00_120125)   | H.264 M-JPEG       | 1        | 640x480                       | 1-way | 1/0    | -   | Yes            | -                  | Yes                  | Test by link        |
| SNV-1080R   | Refer to SNO-1080R(FW 1.00_120125)   | H.264 M-JPEG       | 1        | 640x480                       | 1-way | 1/0    | -   | Yes            | -                  | Yes                  | Test by link        |
| SNV-3080    |  | H.264 MPEG4 M-JPEG | 1        | 720x576                       | 1-way | 2/2    | -   | -              | -                  | -                    | Supported by design |
| Note:       | Please uncheck the "RTSP time out" first.  |                    |          |                               |       |        |     |                |                    |                      |                     |
| SNV-3082    | refer to SND-3082 (FW  | H.264 MPEG4 M-JPEG | 1        | 704x576(PAL)<br>704x480(NTSC) | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| SNV-3120    | v1.24_110816   | H.264 MPEG4 M-JPEG | 1        | 704x480                       | 1-way | 1/1    | Yes | -              | -                  | Yes                  |                     |
| Note:       | PTZ: support zoom and focus.   |                    |          |                               |       |        |     |                |                    |                      |                     |
| SNV-5010    | v2.00_110727   | H.264 MPEG4 M-JPEG | 1        | 1280x1024                     | 1-way | -      | -   | Yes            | -                  | Yes                  |                     |
| Note:       | The frame rate of main stream decrease to the half if watching dual stream video. Camera vendor fix this issue in FW 2.10_111227.  |                    |          |                               |       |        |     |                |                    |                      |                     |
| SNV-5080    | refer to SND-5080(FW3.10_130416)   | H.264 MPEG4 M-JPEG | 1        | 1280x1024                     | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |
| SNV-5080R   | 3.10_130416  | H.264 MPEG4 M-JPEG | 1        | 1280x1024                     | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  |                     |
| Note:       | 1. SNV-5080 is compatible with SNV-5080R<br>2. It's likely failed to query camera parameter in high resolution configuration. It happens on SNO-5080R most. When encountering this issue, please go to camera web. |                    |          |                               |       |        |     |                |                    |                      |                     |
| SNV-5084    | 1.12_131031 refer to SNB-5004  | H.264 M-JPEG       | 1        | 1280x1024                     | 1-way | 1/1    | Yes | Yes            | -                  | Yes                  |                     |
| SNV-6012M   | 1.00_130704  | H264 MJPEG         | 1        | 1920x1080                     | *2    | *2     | Yes | *2             | -                  | Yes                  |                     |
| SNV-6084    | refere to SND-6083 (FW 1.00_130412)  | H264 MJPEG         | 1        | 1920x1080                     | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |
| SNV-6084R   | 1.00_130316 refer to SNB-6004  | H264 MJPEG         | 1        | 1920x1080                     | *2    | *2     | Yes | *2             | -                  | Yes                  | Supported by design |
| SNV-7080    | Refer to SND-7080  | H.264 M-JPEG       | 1        | 2048x1536                     | 1-way | 1/1    | -   | Yes            | -                  | Yes                  | Supported by design |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------|----------|----------------|-------|--------|-----|----------------|--------------------|----------------------|---------------------|
| SNV-7080R   | 2.00_121004   | H.264 MJPEG        | 1        | 2048x1536      | *2    | *2     | Yes | Yes            | -                  | Yes*                 |                     |
| SNV-7082    | refer to SNB-7002(1.06_130402)  | H.264 M-JPEG       | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes                | Yes                  | Supported by design |
| Note:       | Sometimes can't get correct UI setting because camera response time too long.   |                    |          |                |       |        |     |                |                    |                      |                     |
| SNV-7084    | Refer to SND-7084R(0.51)  | H.264              | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -                  | Yes*                 | Supported by design |
| SNV-7084R   | Refer to SND-7084R(0.51)  | H.264              | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -                  | Yes*                 | Supported by design |
| SNV-L6083R  | 1.00_150403   | H.264              | 1        | 1920x1080      | *2    | -      | -   | *2             | -                  | Yes*                 |                     |
| Note:       | 1. Frame rate list with stream 2 is not synchronized with web. (Camera Firmware issue)  |                    |          |                |       |        |     |                |                    |                      |                     |
| SNZ-5200    | v1.05_111216  | H.264 MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | -                  | Yes                  |                     |
| SPE-100     | v1.19_110317  | H.264 MPEG4 M-JPEG | 1        | 704x480        | 1-way | 1/1    | Yes | Yes            | -                  | Yes                  |                     |
| Note:       | SPE-100 PTZ is abnormal, which PTZ may not be stopped after operating. This is camera FW bug, we can observe the same phenomenon on camera web.   |                    |          |                |       |        |     |                |                    |                      |                     |
| SPE-400     | S/W : 1.40_120201   | H.264 MPEG4 M-JPEG | 1        | 704x480        | 1-way | 4/4    | Yes | Yes            | -                  | Yes                  | Test by link        |
| Note:       | SPE-400 is 4IP x 4channels video server   |                    |          |                |       |        |     |                |                    |                      |                     |
| Note:       | All cameras: it's likely failed to query camera parameter in high resolution configuration. It happens on SNO-5080R most. When encountering this issue, please go to camera web.  |                    |          |                |       |        |     |                |                    |                      |                     |
| Note:       | All cameras: if configuring fixed frame rate on camera web, parameter selection on NVR web page won't be synchronized.  |                    |          |                |       |        |     |                |                    |                      |                     |
| Note:       | For Samsung SNB-7002, SNV-7082, SND7082/F and SNO-7082R, when Frame rate sets to 1, there is no image via RTSP. For Samsung SND-3082, SND-3082/F and SNB-3002, video parameter: brightness doesn't work. For Samsung SNB-7002, SNV-7082, SND7082/F and SNO-7082R, resolution sets to 800*450 & 320*180, but actually 800*448 & 320*176. |                    |          |                |       |        |     |                |                    |                      |                     |



**SANTEC**

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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|----------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| SNC-100PBIA | BurgWaechte<br>r_IPC-<br>HX5X2X-   | H.264<br>MJPEG | 1        | 1280x960       | 1-way | -      | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Video parameter only works on normal profile due to camera response without profile information from cgi. (Camera Firmware issue)<br>2. UPnP search can not be used. (Camera Firmware issue)<br>3. Stream parameter setting may fail if the ranges of bitrate is not synchronized with the camera web. (Camera Firmware issue)<br>4. Can not support H.264H and H.264B for format. (NUUO server limitation)<br>5. G.711mu 8k has noise. (Camera Firmware issue)<br>6. G.711mu 16k and AAC can not be used. (NUUO server limitation)                               |                |          |                |       |        |      |                |      |                      |                     |
| SNC-200PDIA | BurgWaechte<br>r_IPC-<br>HFW2(4)X01  | H.264<br>MJPEG | 1        | 1920x1080      | -     | -      | Yes  | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Image rotation may not sync with web. (Camera Firmware Issue)<br>2. When motion trigger or in low-light situation, camera will disconnect. (Camera performance limitation)<br>3. Upnp search can not be used. (Camera Firmware Issue)<br>4. Framerate & Bitrate list can not sync with web. (Camera Firmware Issue)   |                |          |                |       |        |      |                |      |                      |                     |
| SNC-211FDIA | Refer to<br>SNC-<br>200PDIA(V2.<br>210.BW00.8.<br>R.20151124)  | H.264<br>MJPEG | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | Yes*                 | Supported by design |
| SNC-211RSIA | 2.210.BW01.<br>0.R.A.2017.3<br>N.NR, build :<br>2015-04-09   | H.264<br>MJPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1.Audio in with 16 KHz sampling rate does not supported. (NUUO server limitation)<br>2.Camera UPNP Search does not supported (Camera Firmware issue)<br>3.Auto Focus function does not supported (Camera Firmware issue)<br>4.Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera Firmware issue)<br>5.Server Bitrate Value may not sync with web interface. (Camera Firmware issue)<br>6.Mirror function integrated with flip function, mirror button does not work. (Camera Firmware issue) |                |          |                |       |        |      |                |      |                      |                     |
| SNC-231RZNA | V2.400.BW06<br>.O.R.T1.484,<br>build : 2016-<br>01-13  | H.264<br>MJPEG | 1        | 1920x1080      | -     | -      | Yes* | Yes            | *2   | Yes*                 |                     |
| SNC-311FEIF | V2.420.BW00<br>.O.T.2015021<br>3   | H.264<br>MJPEG | 1        | 2048x1536      | -     | -      | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Camera search is not supported. (Camera Firmware issue)<br>2. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera performance limitation)<br>3. HTTP and RTSP port cannot be changed on the camera web. (Camera Firmware issue)  |                |          |                |       |        |      |                |      |                      |                     |
| SNC-311FBIF | Refer to<br>SNC-311FEIF<br>(V2.420.BW0<br>0.O.T.201502<br>13)  | H.264<br>MJPEG | 1        | 2048x1536      | -     | -      | -    | Yes            | Yes  | Yes*                 | Supported by design |



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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name        | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>SNC-331DLNN</b> | v2.400.BW00.0.R  | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:              | 1. PTZ can not be used.(Camera Firmware issue)<br>2. Flip/Mirror could not work.(Camera Firmware issue)<br>3. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web.(Camera Firmware issue)<br>4. UPnP can not be used(Camera Firmware issue)  |              |          |                |       |        |     |                |      |                      |                     |
| <b>SNC-311RBIA</b> | 2.420.BW00.0.T   | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:              | 1. Camera search is not supported. (Camera Firmware issue)<br>2. Autodetection will detect the wrong model. (Camera Firmware issue)<br>3. Stream parameter setting may fail if the ranges of bitrate and framerate are not synchronized with the camera web. (Camera performance limitation)<br>4. Pan and tilt are not supported. (Camera performance limitation)<br>5. Camera does not stop zooming until it reaches the end. (Camera Firmware issue)<br>6. Some frame rates are not supported if the video format is H.264H. (Camera performance limitation)<br>7. Video parameter setting, flip and mirror are supported under normal mode. (NUUO server limitation) |              |          |                |       |        |     |                |      |                      |                     |
| <b>SNC-311RDIA</b> | Refer to SNC-311RBIA(2.420.BW00.0.T)   | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| <b>SNC-311RINA</b> | Refer to SNC-311RBIA(2.420.BW00.0.T)   | H.264 MJPEG  | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| <b>SNC-3302</b>    | v1.0.3.447   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>SNC-3303</b>    | v1.0.3.454   | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:              | 1. Audio stutter with the setting MJPEG 1920x1080 25fps quality: 70 in TCP protocol.<br>2. The snapshot will failed when there are no MJPEG stream.<br>3 Camera with MJPEG resolution 1920x1080 is unable to achieve 20 fps  |              |          |                |       |        |     |                |      |                      |                     |
| <b>SNC-3305</b>    | v1.0.2.386   | H.264        | 1        | 2592x1944      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:              | M-JPEG on high resolution and quality may not get parameter.<br>Audio has some noise in high resolution.<br>The range of framerate is not sync. with web when resolution is 2048x1536 and PAL mode.  |              |          |                |       |        |     |                |      |                      |                     |
| <b>SNC-3322</b>    | v1.0.3.447   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:              | 1. M-JPEG on high resolution and quality may not get parameter.<br>2. Audio has some noise in high resolution.<br>3. SNC-3322 PTZ not support preset.<br>4.The frame interval will be unstable under high stream setting, it will cause video and audio not smoothly and image broken.<br>5.Snapshot resolution is always the same as MJPEG resolution.(Camera limitation)   |              |          |                |       |        |     |                |      |                      |                     |
| <b>SNC-3342</b>    | 1.0.0.11   | H.264 M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| SNC-3901MDN | 5.2.3  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| SNC-3903M   | 9.6.1  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | PTZ is only supported by external RS-485 device.         |                          |          |                |       |        |     |                |      |                      |                     |
| SNC-390DN/W | 1.5  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | PTZ is only supported by external RS-485 device.         |                          |          |                |       |        |     |                |      |                      |                     |
| SNC-4323IR  | refer to SNC-6323IRH(1.0.3.454)                          | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| SNC-4302    | v1.0.3.447   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes*                 |                     |
| SNC-431RBIA | Refer to SNC-100PBIA(2.400.BW00.0.T, build : 2015-10-22) | H.264<br>MJPEG           | 1        | 1280x960       | 1-way | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| SNC-431RDIA | Refer to SNC-100PBIA(2.400.BW00.0.T, build : 2015-10-22) | H.264<br>MJPEG           | 1        | 1280x960       | 1-way | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| SNC-431RLNN | Refer to SNC-331DLNN(V2.400.BW00.0.R, build : 2015-7-27) | H.264<br>MJPEG           | 1        | 2048x1536      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| SNC-5211MIR | 5.2.2  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| SNC-5211R/W | 1.5  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| SNC-5312IR  | Refer to SNC-6312IRH(v1.0.2.386)                         | H.264                    | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| SNC-5312MIR |  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| SNC-5315IR  | Refer to SNC-6315IRH(v1.0.2.386)                         | H.264                    | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design |



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**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| SNC-5323IRH | refer to SNC-6323IRH(1.0.3.454)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design    |
| SNC-565IR/W | 1.5  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                        |
| SNC-6163ID  |  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| SNC-620/W   | 1.0.1.5  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Tested by manufacturer |
| SNC-6201M   | 5.2.2  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| SNC-6202    | Refer to SNC-3302(v1.0.3.447)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design    |
| SNC-6212IR  | Refer to SNC-6312IRH(v1.0.2.386)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design    |
| SNC-6221MIR | 5.2.2  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| SNC-6223MIR |  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| SNC-6301M   | 5.2.2  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| SNC-6302    | Refer to SNC-3302(v1.0.3.447)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design    |
| Note:       | M-JPEG on high resolution and quality may not get parameter.<br>Audio has some noise in high resolution. |                          |          |                |       |        |     |                |      |                      |                        |
| SNC-6303    | refer to SNC-3303(1.0.3.454)   | H.264<br>M-JPEG          | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 | Supported by design    |
| SNC-6303M   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| SNC-6312IRH | v1.0.2.386   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                        |





**SANTEC**

- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to A4500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name         | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|---------------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|------------------------|
| <b>SNC-6315IRH</b>  | v1.0.2.386  | H.264<br>M-JPEG          | 1        | 2592x1944      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                        |
| Note:               | M-JPEG on high resolution and quality may not get parameter.<br>Audio has some noise in high resolution.<br>The range of framerate is not sync. with web when resolution is 2048x1536 and PAL mode.<br>SNC-6312IRH and SNC-6315IRH PTZ only support zoom and focus. |                          |          |                |       |        |     |                |      |                      |                        |
| <b>SNC-6323IRH</b>  | v1.0.3.454  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                        |
| Note:               | 1. Audio stutter with the setting MJPEG 1920x1080 25fps quality: 70 in TCP protocol.<br>2. The snapshot will failed when there are no MJPEG stream.<br>3 Camera with MJPEG resolution 1920x1080 is unable to achieve 20 fps   |                          |          |                |       |        |     |                |      |                      |                        |
| <b>SNC-6332</b>     | 1.0.0.10  | H.264<br>M-JPEG          | 1        | 1600x1200      | 1-way | 4/1    | -   | -              | Yes  | Yes                  |                        |
| <b>SNC-670ID/W</b>  | 1.0.1.5   | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 1/1    | Yes | Yes            | -    | Yes                  | Tested by manufacturer |
| <b>SNC-8322I/HO</b> | v1.0.3.447  | H264<br>M-JPEG           | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes*                 | Supported by design    |
| <b>SNC-P3601M</b>   | 5.2.2   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design    |
| <b>SNC-P3603M</b>   |   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design    |
| Note:               | On-edge motion: H.264 and MPEG4 (3 megapixel cameras).  |                          |          |                |       |        |     |                |      |                      |                        |
| <b>SVS-1100</b>     | 1.1.8   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 2/2    | Yes | Yes            | Yes  | Yes                  |                        |
| <b>SVS-3001</b>     |   | H264<br>M-JPEG           | 1        | 720x480        | 1-way | 1/1    | Yes | -              | Yes  | Yes                  | Supported by design    |
| Note:               | 1.3 megapixel cameras: frame rate of MJPEG format is not synchronized as camera actually sends, for example, we set fps to 5 fps, but the video is 3 fps. This issue is fixed in camera FW v5.2.6.  |                          |          |                |       |        |     |                |      |                      |                        |
| Note:               | 1.3 megapixel and 3 megapixel cameras: with HW restrictions, the video @ H.264 with TCP protocol is not smooth in the conditions of high resolution, fps and bitrate.   |                          |          |                |       |        |     |                |      |                      |                        |



- : not available on camera

\*1: not available on software

\*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support

| Device Name       | Tested Firmware | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------------|-----------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>FBN-D101N</b>  | v1.0.1_20121005 | M-JPEG H.264 | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>FBN-D101P</b>  | v1.0.1_20121005 | M-JPEG H.264 | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>PSN-1012N</b>  | v1.0.4_20121029 | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| <b>PSN-1012P</b>  | v1.0.4_20121029 | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| <b>PSSN-1012N</b> | v1.0.4_20121029 | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| <b>PSSN-1012P</b> | v1.0.4_20121029 | M-JPEG H.264 | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | -    | Yes                  | Supported by design |
| <b>RIN-0012N</b>  | v1.0.4_20121029 | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |
| <b>RIN-0012P</b>  | v1.0.4_20121029 | H.264        | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name     | Tested Firmware  | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-----------------|--|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| <b>SNC-21XX</b> | BgWT813003<br>5N03 V23<br>1208152A   | H.264<br>MPEG4<br>MJPEG | 1        | 720P           | 1-way | 1/1    | Yes | Yes            | -    | Yes                  |         |
| note            | SNC-21XX contains SNC-WD2112MDN, SNC-WD2122DN, SNC-WDL2132DN, SNC-WDL2142DN. |                         |          |                |       |        |     |                |      |                      |         |
| <b>SNC-22XX</b> | BgWT820271<br>5N03 V23<br>1208153A   | H.264<br>MPEG4<br>MJPEG | 1        | 1080P          | 1-way | 1/1    | Yes | Yes            | -    | Yes                  |         |
| note            | SNC-22XX contains SNC-2212MDN, SNC-2222DN, SNC-L2232DN.                      |                         |          |                |       |        |     |                |      |                      |         |
| <b>SNC-23XX</b> | BgWT830003<br>6N03 V23<br>1208154A   | H.264<br>MPEG4<br>MJPEG | 1        | 3M             | 1-way | 1/1    | Yes | Yes            | -    | Yes                  |         |
| note            | SNC-23XX contains SNC-WD2312MDN, SNC-WD2322DN, SNC-WDL2132DN, SNC-WDL2332DN. |                         |          |                |       |        |     |                |      |                      |         |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name               | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|---------------------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| Generic                   | 1.7.0  | H.264<br>M-JPEG          | 1        | All            | 1-way | 2/2    | -   | Yes            | -    | Yes                | Yes                  |                     |
| Note:                     | Support G6 model.<br>In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-CH110/B / SNC-CH110/S | 1.27.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x960       | -     | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CH120                 | 1.80   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | -     | 1/0    | -   | Yes            | -    | Yes                | Yes                  |                     |
| SNC-CH140                 | 1.07.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CH160                 | 1.82.01  | H.264<br>M-JPEG          | 1        | 1280x1024      | -     | 1/1    | Yes | Yes            | -    | Yes                | Yes*                 |                     |
| Note:                     | Camera is unable to achieve 30 fps with resolution 1280x1024.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-CH180                 | 1.26.01  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CH210                 | 1.78.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:                     | 1. SNC-CH210/B and SNC-CH210/S are compatible with SNC-CH210<br>2. Dualstream can not be enabled when H.264, 1280 x 720, 30 fps is selected for Image 1.<br>3. The number of connection is 1 for JPEG and 2 for H264 and MPEG4 at the same time.   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-CH220                 | 1.21.02  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | -     | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CH240                 | 1.10.01  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CH260                 | 1.78.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | -     | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:                     | 1. PTZ function only support zoom tele/wide, focus near/far and auto function.<br>2. DualStream can not be enabled when the H264, 1920x1080, 30 FPS is selected for Image1.<br>3. The number of connection is 1 for JPEG and 2 for H264 and MPEG4 at the same time.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-CH280                 | 1.26.01  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CM120                 | 1.00   | MPEG4<br>M-JPEG          | 1        | 1280x960       | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CS10                  |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SNC-CS11                  | 1.05   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CS20                  |  | MPEG4<br>M-JPEG          | 1        | 768x576        | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name                       | Tested Firmware  | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-----------------------------------|--|--------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| SNC-CS3                           |  | M-JPEG             | 1        | 736x480        | -     | 1/2    | -   | -              | -    | Yes                | Yes*                 | Supported by design |
| SNC-CS50                          | 2.21   | MPEG4 M-JPEG       | 1        | 640x480        | 1-way | 2/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-CX600W                        | 1.7.0  | H.264 M-JPEG       | 1        | 1280x1024      | 1-way | -      | -   | Yes            | -    | Yes                | Yes                  |                     |
| Note:                             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |                    |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-DF50                          | 1.11   | H.264 MPEG4 M-JPEG | 1        | 640x480        | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DF70                          | 1.17   | MPEG4 M-JPEG       | 1        | 640x480        | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DF80                          | 1.11   | H.264 MPEG4 M-JPEG | 1        | 640x480        | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DF85                          |  | H.264 MPEG4 M-JPEG | 1        | 640x480        | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SNC-DH110/B / SNC-DH110/W         | 1.82.01  | H.264 M-JPEG       | 1        | 1280x960       | -     | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:                             | It would take 30~50 seconds to reconnect after changing video format.  |                    |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-DH110T/B / SNC-DH110T/W       | Refer to SNC-DH110   | H.264 MPEG4 M-JPEG | 1        | 1280x960       | -     | -      | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SNC-DH120                         | 1.78.00  | H.264 MPEG4 M-JPEG | 1        | 1280x1024      | -     | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:                             | 1. PTZ function only support zoom tele/wide, focus near/far and auto function.<br>2. Dualstream can not be enabled when H.264, 1280 x 720, 30 fps is selected for Image 1.<br>3. The connection cannot established with high probability when selected JPEG, high resolution and high quality.<br>4. The number of connection is 1 for JPEG and 2 for H264 and MPEG4 at the same time. |                    |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-DH140                         | 1.07.00  | H.264 MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:                             | Motion detection will be turned off upon changing to maximum resolution. Remember to enable it in camera web.  |                    |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-DH160                         | 1.13.00  | H.264 MPEG4 M-JPEG | 1        | 1280x1024      | -     | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DH180                         | 1.10.02  | H.264 MPEG4 M-JPEG | 1        | 1280x1024      | 1-way | 1/2    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DH210/B / SNC-DH210T/B / SNC- |  | H.264 MPEG4 M-JPEG | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                | Yes*                 | Supported by design |
|                                   | 1.27.00  | H.264 MPEG4 M-JPEG | 1        | 2048x1536      | -     | -      | -   | Yes            | -    | Yes                | Yes*                 |                     |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| SNC-DH220   | 1.82.01   | H.264<br>M-JPEG          | 1        | 1920x1440      | -     | -      | Yes  | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DH220T  | Refer to SNC-DH220  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | 1-way | 1/1    | Yes  | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SNC-DH240   | 1.11.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | 1-way | 1/2    | -    | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DH260   | 1.30.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1440      | -     | 1/1    | -    | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DH280   | 1.26.01   | H.264<br>MPEG4<br>M-JPEG | 1        | 1921x1440      | 1-Way | 1/2    | -    | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DM110   |   | MPEG4<br>M-JPEG          | 1        | 1280x960       | 1-way | 1/2    | -    | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SNC-DM160   | 1.01  | MPEG4<br>M-JPEG          | 1        | 1280x960       | 1-way | 1/2    | -    | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DS10    | 1.01  | H.264<br>MPEG4<br>M-JPEG | 1        | 768x576        | 1-way | 1/2    | -    | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-DS60    | 1.00  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/2    | -    | Yes            | -    | Yes                | Yes*                 |                     |
| SNC-EB600   | Refer to SNC-EB600B(1.9.2)  | H264<br>MJPEG            | 1        | 1280x1024      | -     | -      | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:       | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SNC-EB600B  | 1.9.2   | H264<br>MJPEG            | 1        | 1280x1024      | -     | -      | -    | Yes            | -    | Yes                | Yes                  |                     |
| Note:       | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SNC-EB602R  | Refer to SNC-EB632R(2.1.2)  | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | Yes* | Yes            | -    | Yes                | Yes*                 | Supported by design |
| SNC-EB630   | 1.9.2   | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | -    | Yes            | -    | Yes                | Yes                  |                     |
| Note:       | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SNC-EB630B  | Refer to SNC-EB630(1.9.2)   | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:       | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.   |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SNC-EB632R  | 2.2.1   | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | Yes* | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | PTZ only support zoom and focus.  |                          |          |                |       |        |      |                |      |                    |                      |                     |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name       | Tested Firmware   | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------------|---|--------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| <b>SNC-EM600</b>  | Refer to SNC-EB600B(1.9.2)  | H264 MJPEG         | 1        | 1280x1024      | -     | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                |       |        |     |                |      |                    |                      |                     |
| <b>SNC-EM601</b>  | Refer to SNC-EB600B(1.9.2)  | H264 MJPEG         | 1        | 1280x1024      | -     | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                |       |        |     |                |      |                    |                      |                     |
| <b>SNC-EM602R</b> | Refer to SNC-EB600B(1.9.2)  | H264 MJPEG         | 1        | 1280x1024      | -     | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                |       |        |     |                |      |                    |                      |                     |
| <b>SNC-EM630</b>  | Refer to SNC-EB630(1.9.2)   | H.264 M-JPEG       | 1        | 1920x1080      | -     | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                |       |        |     |                |      |                    |                      |                     |
| <b>SNC-EM631</b>  | Refer to SNC-EB630(1.9.2)   | H.264 M-JPEG       | 1        | 1920x1080      | -     | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                |       |        |     |                |      |                    |                      |                     |
| <b>SNC-EM632R</b> | 1.9.2   | H.264 M-JPEG       | 1        | 1920x1080      | -     | -      | Yes | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                |       |        |     |                |      |                    |                      |                     |
| <b>SNC-EP520</b>  | 1.40.00   | H.264 MPEG4 M-JPEG | 1        | 720x480        | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| <b>SNC-EP521</b>  | 1.42.00   | H.264 MPEG4 M-JPEG | 1        | 720x576        | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| <b>SNC-EP550</b>  | Refer to SNC-ER550  | H.264 MPEG4 M-JPEG | 1        | 1280x720       | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  | Supported by design |
| <b>SNC-EP580</b>  | 1.42.00   | H.264 MPEG4 M-JPEG | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | For performance consideration, users are unable to watch live videos on both NVR side and camera side.  |                    |          |                |       |        |     |                |      |                    |                      |                     |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| SNC-ER520   | 1.42.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| SNC-ER521   | 1.42.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| SNC-ER550   | 1.78.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| Note:       | 1. Dualstream can not be enabled when H264, 1280x720, 30fps is selected for image 1.<br>2. The number of connection is 1 for JPEG and 2 for H264 and MPEG4 at the same time.<br>3. The connection cannot established with high probability when selected JPEG, high resolution and high quality.   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-ER580   | 1.82.01  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | For performance consideration, users are unable to watch live videos on both NVR side and camera side.   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-ER585   | 1.78.00  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | *2    | *2     | Yes | Yes            | -    | *2                 | Yes                  | Tested by link      |
| Note:       | MPEG4 texture will break briefly during resolution switch.   |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-HM662   | 1.2.0  | H.264<br>MJPEG           | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | Fisheye camera with manual calibration in Crystal<br>1. Camera is unable to achieve setting frame rate and bit rate. (Camera performance limitation)<br>2. Doesn't support audio-in and audio-out when the resolution is 2560x1920 via MJPEG. (Camera Firmware issue)<br>3. When switching the audio codec on camera webpage, the camera won't disconnect automatically. It will cause abnormal sound. (Camera Firmware issue) |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-P1      | 1.28   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | -    | Yes                | Yes                  |                     |
| SNC-P5      | 1.11   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/1    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| SNC-RH124   | 1.84.00  | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 4/2    | Yes | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | 1. When camera's format is MJPEG and resolution is larger than 640x480, the connection is unstable.<br>2. The camera is unable to achieve 30fps with MJPEG format.<br>3. Camera must reconnect when change the audio codec in web site.  |                          |          |                |       |        |     |                |      |                    |                      |                     |
| SNC-RH164   | 1.10.01  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | 1-way | 4/2    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| SNC-RS44N   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 4/2    | Yes | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RS44P   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 4/2    | Yes | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RS46N   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 4/2    | Yes | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RS46P   | 1.10.02  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 4/2    | Yes | Yes            | -    | Yes                | Yes                  |                     |





: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| SNC-RS84N   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 4/2    | Yes  | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RS84P   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 4/2    | Yes  | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RS86N   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 4/2    | Yes  | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RS86P   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 4/2    | Yes  | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RX530   | 3.00   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 2/2    | Yes  | Yes            | -    | Yes                | Yes                  |                     |
| SNC-RX550   |  | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 2/2    | Yes  | Yes            | -    | Yes                | Yes                  | Supported by design |
| SNC-RX570   | 3.01   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 2/2    | Yes  | Yes            | -    | Yes                | Yes                  |                     |
| SNC-RZ25    | 1.29   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 2/2    | Yes  | Yes            | -    | Yes                | Yes                  |                     |
| SNC-RZ30    | 3.14   | M-JPEG                   | 1        | 736x480        | -     | 3/2    | Yes  | -              | -    | Yes                | Yes                  |                     |
| SNC-RZ50    | 2.21   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 2/2    | Yes  | Yes            | -    | Yes                | Yes                  |                     |
| SNC-VB600   | 1.9.2  | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  |                     |
| Note:       | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Audios (G726 40kbps, 32kbps, 16kbps) are non-smooth or muted. |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SNC-VB600B  | 1.7.0  | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  |                     |
| Note:       | In certain scenarios i.e. under high frame rate or resolution, camera might have limitation.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>   |                          |          |                |       |        |      |                |      |                    |                      |                     |
| SNC-VB630   | 2.2.1  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | -    | Yes                | Yes*                 |                     |
| Note:       | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |                          |          |                |       |        |      |                |      |                    |                      |                     |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name       | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------------|--|--------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| <b>SNC-VB635</b>  | 1.11.0   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Easy Focus.   |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM600</b>  | Refer to SNC-VB600(1.9.2)  | H.264 M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Audios (G726 40kbps, 32kbps, 16kbps) are non-smooth or muted. |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM600B</b> | Refer to SNC-VB600B  | H.264 M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM601</b>  | Refer to SNC-VB600(1.9.2)  | H.264 M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Audios (G726 40kbps, 32kbps, 16kbps) are non-smooth or muted. |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM601B</b> | Refer to SNC-VB600(1.9.2)  | H.264 M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | -                  | -                    | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM602R</b> | Refer to SNC-VB600(1.9.2)  | H.264 M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Audios (G726 40kbps, 32kbps, 16kbps) are non-smooth or muted. |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM630</b>  | Refer to SNC-VM632R(1.9.2)   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Audios (G726 40kbps, 32kbps, 16kbps) are non-smooth or muted. |              |          |                |       |        |      |                |      |                    |                      |                     |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name       | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------------|--|--------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------------------|
| <b>SNC-VM631</b>  | Refer to SNC-VM632R(1.9.2)   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a><br>Audios (G726 40kbps, 32kbps, 16kbps) are non-smooth or muted. |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-VM632R</b> | 1.9.2  | H264 MJPEG   | 1        | 1920x1080      | 1-way | 2/2    | -    | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-WR600</b>  | 1.11.0   | H264 MJPEG   | 1        | 1280x1024      | 1-way | 4/2    | Yes* | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-WR602</b>  | Refer to SNC-WR600(1.11.0)   | H264 MJPEG   | 1        | 1280x1024      | 1-way | 4/2    | Yes* | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-WR630</b>  | 1.11.0   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 4/2    | Yes* | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-WR632</b>  | Refer to SNC-WR630   | H264 MJPEG   | 1        | 1920x1080      | 1-way | 4/2    | Yes* | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |
| <b>SNC-XM631</b>  | 2.2.1  | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | -    | Yes            | -    | Yes                | Yes*                 |                     |
| <b>SNC-XM632</b>  | 1.12.0   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | -    | Yes            | -    | Yes                | Yes                  |                     |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a>  |              |          |                |       |        |      |                |      |                    |                      |                     |



: not available on camera

\*1: not available on software

\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name       | Tested Firmware   | Video Format       | Video Ch | Max Resolution                | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks             |
|-------------------|---|--------------------|----------|-------------------------------|-------|--------|-----|----------------|------|--------------------|----------------------|---------------------|
| <b>SNC-XM636</b>  | Refer to SNC-XM632(1.12.0)  | H.264 MJPEG        | 1        | 1920x1080                     | 1-way | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                               |       |        |     |                |      |                    |                      |                     |
| <b>SNC-XM637</b>  | Refer to SNC-XM632(1.12.0)  | H.264 MJPEG        | 1        | 1920x1080                     | 1-way | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| Note:             | In certain scenarios i.e. under high frame rate and resolution with multiple stream condition, camera might have limitation by bandwidth specification.<br>For further information, please visit Sony A&E Portal: <a href="https://www.security.sony.biz/ssp/ae/homeDisplay.do">https://www.security.sony.biz/ssp/ae/homeDisplay.do</a> |                    |          |                               |       |        |     |                |      |                    |                      |                     |
| <b>SNC-Z20</b>    | 1.06  | M-JPEG             | 1        | 736x480                       | -     | 1/2    | Yes | -              | -    | Yes                | Yes                  |                     |
| Note:             | PTZ Support: zoom only.   |                    |          |                               |       |        |     |                |      |                    |                      |                     |
| <b>SNC-ZB550</b>  | 1.82.01   | H.264 MJPEG        | 1        | 1280x1024                     | -     | 1/1    | -   | Yes            | -    | Yes                | Yes*                 |                     |
| <b>SNT-EP104</b>  |   | H.264 MPEG4 M-JPEG | 4        | 720x480                       | -     | -      | -   | Yes            | -    | Yes                | Yes                  | Supported by design |
| <b>SNT-EP154</b>  | 1.10.01   | H.264 MPEG4 M-JPEG | 4        | 720x480                       | -     | -      | -   | Yes            | -    | Yes                | Yes                  |                     |
| <b>SNT-EX101</b>  |   | H.264 MPEG4 M-JPEG | 1        | 720x480                       | 1-way | 2/2    | Yes | Yes            | -    | Yes                | Yes                  | Supported by design |
| <b>SNT-EX101E</b> | 1.10.01   | H.264 MPEG4 M-JPEG | 1        | PAL: 720x576<br>NTSC: 720x480 | 1-way | 2/2    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| <b>SNT-EX104</b>  | 1.10.01   | H.264 MPEG4 M-JPEG | 4        | PAL: 720x576<br>NTSC: 720x480 | 1-way | 4/4    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| <b>SNT-EX154</b>  | 1.10.01   | H.264 MPEG4 M-JPEG | 4        | 720x480                       | 1-way | 4/4    | Yes | Yes            | -    | Yes                | Yes                  |                     |
| <b>SNT-V704</b>   | 2.15  | MPEG4 M-JPEG       | 4        | 720x480                       | 1-way | 1/4    | -   | -              | -    | Yes                | Yes                  |                     |
| Note:             | When use 2nd stream on "E" and "X" series, IP-cameras motion detection will not able to use.<br>Please refer to Sony user's guide. The 1.7 and above version of FW solve this problem.  |                    |          |                               |       |        |     |                |      |                    |                      |                     |



spark

UltraHD technology

: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Camera Search Tool | Multi Stream Support | Remarks |
|----------------|---|--------------|----------|----------------|-------|--------|------|----------------|------|--------------------|----------------------|---------|
| SR-C-F21100    | 2.420.0005.0.R  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | Yes  | Yes            | Yes  | -                  | Yes*                 |         |
| Note:          | 1. Camera Search and Auto Detect was not supported. (Camera firmware issue)<br>2. Bitrate Range in camera web was not sync with NUUO server. (Camera firmware issue)<br>3. G711A 16K was not supported. (NUUO server limitation)<br>4. Because of bitrate range was not sync between server and camera web, camera setting probably fail. (Camera firmware issue) |              |          |                |       |        |      |                |      |                    |                      |         |
| SR-C-F25100-V  | 2.210.0004.0.T.A.3013.3N.R  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes  | Yes            | Yes  | -                  | Yes*                 |         |
| Note:          | 1. Camera Search and Auto Detect was not supported. (Camera firmware issue)<br>2. Bitrate Range in camera web was not sync with NUUO server. (Camera firmware issue)<br>3. G711A 16K was not supported. (NUUO server limitation)<br>4. Because of bitrate range was not sync between server and camera web, camera setting probably fail. (Camera firmware issue) |              |          |                |       |        |      |                |      |                    |                      |         |
| SR-C-F24110-FV | 2.420.0005.0.R  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | Yes  | -                  | Yes*                 |         |
| Note:          | 1. Camera Search and Auto Detect was not supported. (Camera firmware issue)<br>2. Bitrate Range in camera web was not sync with NUUO server. (Camera firmware issue)<br>3. In G.711 sound will distort. (Camera firmware issue)<br>4. Zoom can't use successfully. (Camera performance limitation)  |              |          |                |       |        |      |                |      |                    |                      |         |
| SR-C-F26110    | 2.420.0005.0.R  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/1    | Yes  | Yes            | Yes  | -                  | Yes*                 |         |
| Note:          | 1. Camera Search and Auto Detect was not supported. (Camera firmware issue)<br>2. Bitrate Range in camera web was not sync with NUUO server. (Camera firmware issue)<br>3. G711A 16K was not supported. (NUUO server limitation)<br>4. Because of bitrate range was not sync between server and camera web, camera setting probably fail. (Camera firmware issue) |              |          |                |       |        |      |                |      |                    |                      |         |
| SR-C-F22100-V  | 2.420.0005.0.R  | H.264 MJPEG  | 1        | 1920x1080      | -     | -      | -    | Yes            | Yes  | -                  | Yes*                 |         |
| Note:          | 1. Camera Search and Auto Detect was not supported. (Camera firmware issue)<br>2. Bitrate Range in camera web was not sync with NUUO server. (Camera firmware issue)<br>3. Because of bitrate range was not sync between server and camera web, camera setting probably fail. (Camera firmware issue)   |              |          |                |       |        |      |                |      |                    |                      |         |
| SR-C-F23120-V  | 2.420.0005.0.R  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | Yes* | Yes            | Yes  | -                  | Yse*                 |         |
| Note:          | 1. Camera Search and Auto Detect was not supported. (Camera firmware issue)<br>2. Bitrate Range in camera web was not sync with NUUO server. (Camera firmware issue)<br>3. G711A 16K was not supported. (NUUO server limitation)<br>4. Because of bitrate range was not sync between server and camera web, camera setting probably fail. (Camera firmware issue) |              |          |                |       |        |      |                |      |                    |                      |         |
| Nitida 12000   | 01.10:01.08:01.13:01.11:01.05:00.04   | H.264        | 1        | 1920x1080      | -     | -      | -    | -              | -    | -                  | Yes*                 |         |
| Note:          | Second stream is unable to achieve setting bit rate.(Camera performance limitation)   |              |          |                |       |        |      |                |      |                    |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name                 | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|-----------------------------|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| Generic                     | v1.9.0601.100<br>1.3.0.36.0.0  | H.264<br>M-JPEG | 1        | 2592x1944      | 1-way | 2/2    | Yes | Yes            | -    | -            | Yes*                 |                     |
| Note:                       | Test by IPC54-40EDN in DP v3.13.(FW : v1.9.0601.1001.3.0.36.0.0) (I/O ch : 1/1)<br>1. The ranges of bitrate and framerate may be different from camera web. (Camera Firmware issue)<br>2. Motion detection is not supported on MJPEG. (Camera performance limitation)<br>3. Bitrate of actual streaming may be different from the setting. (Camera Firmware issue)<br>4. Frame rate of actual streaming may be different from the setting. (Camera Firmware issue) |                 |          |                |       |        |     |                |      |              |                      |                     |
| <b>IPR54/14ALDN (I1)/23</b> | v2.0.0601.100<br>2.3.0.56.0.0  | H.264<br>MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | *2             | *2   | Yes          | Yes*                 |                     |
| Note:                       | 1. Auto Detection will fail because it is out of the searching time. If the searching file rotate and start with onvif, the auto-detection is functional and can work properly. (NUUO server limitation)   |                 |          |                |       |        |     |                |      |              |                      |                     |
| <b>IPR56/20APDN /13</b>     | v2.0.0701.100<br>2.3.0.114.1.0   | H.264<br>MJPEG  | 1        | 1920x1080      | 1-way | -      | -   | *2             | *2   | Yes          | Yes*                 |                     |
| Note:                       | 1. Auto Detection will fail because it is out of the searching time. If the searching file rotate and start with onvif, the auto-detection is functional and can work properly. (NUUO server limitation)   |                 |          |                |       |        |     |                |      |              |                      |                     |
| <b>IPS54/70DN/Z 18</b>      | refer to<br>IPS54/70DN/Z<br>R18  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/0    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>IPS54/70DN/Z R18</b>     | v1.6_build044<br>014_027   | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/0    | Yes | Yes            | -    | -            | Yes                  |                     |
| <b>IPS54/70DR/Z 18</b>      | refer to<br>IPS54/70DN/Z<br>R18  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/0    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>IPS54/70DR/Z R18</b>     | refer to<br>IPS54/70DN/Z<br>R18  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/0    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>IPS54/71DN/Z 18</b>      | refer to<br>IPS54/70DN/Z<br>R18  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/0    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>IPS54/80DR</b>           | refer to<br>IPS54/70DN/Z<br>R18  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/0    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>SN-IPC54/11DN</b>        | refer to SN-<br>IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>SN-IPC54/11EDN</b>       | refer to SN-<br>IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>SN-IPC54/11FDN</b>       | v1.6_build044<br>014_027   | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  |                     |
| <b>SN-IPC54/12DN</b>        | refer to SN-<br>IPD54/12VDN  | H.264<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| <b>SN-IPC54/12EDN</b>       | refer to SN-<br>IPD54/12VDN  | H.264<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware                                | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|----------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| SN-IPC54/12FDN | refer to SN-IPD54/12VDN                        | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPC54/14EDN | refer to IPD54/12VDN (v1.6_build044014_106)    | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPC54/20DN  | 1.6_build044011_061                            | H.264 M-JPEG | 1        | 704x576        | 1-way | -      | -   | Yes            | -    | Yes          | -                    |                     |
| SN-IPC54/31EDN | refer to SN-IPV54/31UDR (v1.6_build044014_137) | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPC54/40EDN | v1.6_build044014_137                           | H.264 M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  |                     |
| SN-IPC54/50DN  |  | H.264 M-JPEG | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPD54/11DN  |  | H.264 M-JPEG | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPD54/11VDN | refer to SN-IPC54/11FDN                        | H.264 M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPD54/11VDR | refer to SN-IPC54/11FDN                        | H.264 M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes*                 | Supported by design |
| SN-IPD54/12DN  |  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPD54/12VDR | refer to SN-IPD54/12VDN                        | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPD54/14VDN | refer to IPD54/12VDN (v1.6_build044014_106)    | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPD54/14VDR | refer to IPD54/12VDN (v1.6_build044014_106)    | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPD54/31VDN | refer to SN-IPV54/31UDR (v1.6_build044014_137) | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPD54/31VDR | refer to SN-IPV54/31UDR (v1.6_build044014_137) | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name     | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|-----------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| SN-IPD54/40VDN  | refer to SN-IPC54/40EDN (v1.6_build044014_137)   | H.264 M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/11AKDN | refer to SN-IPC54/11FDN  | H.264 M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/11ALDN | refer to SN-IPC54/11FDN  | H.264 M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/11ANDN | refer to SN-IPC54/11FDN  | H.264 M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/11DN   | refer to SN-IPC54/11FDN  | H.264 M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/12AKDN | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/12ALDN | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/12ANDN | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/12DN   | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/14AKDN | refer to IPD54/12VDN (v1.6_build044014_106)  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/14APDN | refer to IPD54/12VDN (v1.6_build044014_106)  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/31AKDN | refer to SN-IPV54/31UDR (v1.6_build044014_137)   | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPD54/12VDN  | v1.9.0601.100<br>1.3.0.22.0.0  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | Yes          | Yes*                 |                     |
| Note:           | 1.The snapshot function can't be used.(Camera firmware issue)<br>2.The PTZ function can't be use on camera web.(Camera firmware issue)<br>3.Some framerate and bitrate can't be set due to Onvif restriction.(Camera firmware issue)<br>4.Due to Onvif restriction, some frame rate and bit rates cannot be set .(Camera firmware issue)<br>5.Audio only support G.711 mu-law.(NUUO server limitation) |              |          |                |       |        |     |                |      |              |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name          | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|----------------------|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| SN-IPC55/20EDN       | v1.8.1001.100<br>1.3.0.46.0.0  | H.264<br>MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | -    | Yes          | Yes*                 |                     |
| Note:                | 1.The snapshot function can't be used.(Camera firmware issue)<br>2.The PTZ function can't be use on camera web.(Camera firmware issue)<br>3.Some framerate and bitrate can't be set due to Onvif restriction.(Camera firmware issue)<br>4.Due to Onvif restriction, some frame rate and bit rates cannot be set .(Camera firmware issue)<br>5.Audio only support G.711 mu-law.(NUUO server limitation) |                 |          |                |       |        |     |                |      |              |                      |                     |
| SN-IPR54/31APDN      | refer to SN-IPV54/31UDR (v1.6_build044014_137)   | H.264<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/31UDN       | v1.7.1001.3.0.13   | H.264<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | -    | Yes          | Yes                  |                     |
| Note:                | Some framerate and bitrate can't be set due to Onvif restriction.  |                 |          |                |       |        |     |                |      |              |                      |                     |
| SN-IPR54/40AKDN      | refer to SN-IPC54/40EDN (v1.6_build044014_137)   | H.264<br>M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/40APDN      | refer to SN-IPC54/40EDN (v1.6_build044014_137)   | H.264<br>M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPR54/50DN        |  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPS54/60DN/Z18    |  | H.264<br>M-JPEG | 1        | 704x576        | 1-way | -      | Yes | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPS54/60DN/Z18/WI | v1.6_build044013_040   | H.264<br>MJPEG  | 1        | 704x480        | 1-way | -      | Yes | Yes            | -    | Yes          | Yes                  |                     |
| SN-IPS54/60DN/Z36    |  | H.264<br>M-JPEG | 1        | 704x576        | 1-way | -      | Yes | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPV54/11DN        | refer to SN-IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/11DR        | refer to SN-IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/11UDN       | refer to SN-IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/11UDR       | refer to SN-IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/11ZDR       | refer to SN-IPC54/11FDN  | H.264<br>M-JPEG | 1        | 1280x720       | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name    | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks             |
|----------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------------------|
| SN-IPV54/12DN  | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/12DR  | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/12UDN | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/12UDR | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/12ZDR | refer to SN-IPD54/12VDN  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/14UDR | refer to IPD54/12VDN (v1.6_build044 014_106)   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/14ZDR | refer to IPD54/12VDN (v1.6_build044 014_106)   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/31UDN | v1.6_build044 014_137  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  |                     |
| Note:          | SN-IPV54/31UDN FW issue: Camera will reboot when MJPEG 2048x1536, 1920x1080 and quality 9. |              |          |                |       |        |     |                |      |              |                      |                     |
| SN-IPV54/31UDR | refer to SN-IPV54/31UDR (v1.6_build044 014_137)  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/31ZDR | refer to SN-IPV54/31UDR (v1.6_build044 014_137)  | H.264 M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/40UDN | refer to SN-IPC54/40EDN (v1.6_build044 014_137)  | H.264 M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/40UDR | refer to SN-IPC54/40EDN (v1.6_build044 014_137)  | H.264 M-JPEG | 1        | 2592x1920      | 1-way | 1/1    | Yes | Yes            | -    | -            | Yes                  | Supported by design |
| SN-IPV54/50DN  |  | H.264 M-JPEG | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes          | -                    | Supported by design |
| SN-IPV54/50DR  |  | H.264 M-JPEG | 1        | 1280x720       | 1-way | -      | -   | Yes            | -    | Yes          | -                    | Supported by design |
| SN-VSR54/04    | build044014_136_1  | H.264        | 4        | 704x576        | 1-way | 2/1    | Yes | Yes            | -    | -            | Yes                  |                     |
| Note:          | 1. Audio only available on channel 1 and channel 2.<br>2. DI2 can't work correctly.        |              |          |                |       |        |     |                |      |              |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

For PTZ:  
 Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | ONVIF Search | Multi Stream Support | Remarks |
|-------------|--|-----------------|----------|----------------|-------|--------|-----|----------------|------|--------------|----------------------|---------|
| VSR54/01    | v1.6_build044014_026   | H.264<br>M-JPEG | 1        | D1             | 1-way | 2-1    | Yes | Yes            | -    | -            | Yes                  |         |
| Note:       | IPS54/70DN/ZR18: Changing MJPEG resolution may get Fail message due to camera FW issue.  |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | SN-IPD54/12VDN: Can't test DI due to HW broken.  |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | SN-IPC54/40EDN<br>1. MJPEG 2592x1920 by camera FW issue.<br>2. Camera will reboot when MJPEG 2048x1536 and quality 9 by camera FW issue.   |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | SN-IPS54/60DN/Z18/WI:<br>1. Audio, MD, PTZ function only test by SN-IPS54/60DN/Z18/WI and v1.6_build044013_040 firmware.<br>2. Dualstream may not connect sometimes when accessing camera too frequency. |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | SN-IPV54/50DR: Implement with ONVIF protocol v1.02.  |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | Due to the limitation of ONVIF protocol, ONVIF search works only as cameras keep default administrator name and password.  |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | Do not support I/O due to camera FW limitation.  |                 |          |                |       |        |     |                |      |              |                      |         |
| Note:       | VSR54/01:<br>1. Autodetect fail due to camera FW issue.<br>2. Changing MJPEG resolution may get Fail message due to camera FW issue.<br>3. DI can't work correctly due to camera FW issue.               |                 |          |                |       |        |     |                |      |              |                      |         |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

For multi stream support:

Yes: multi stream fix to 500kbps/100kbps

Yes\*: multi stream setting support in Crystal

For PTZ:

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format      | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Auto Pan | Multi Stream Support | Remarks             |
|-------------|---|-------------------|----------|----------------|-------|--------|-----|----------------|------|----------|----------------------|---------------------|
| TV-IP262P   | 1.0.3   | H.264 MJPEG       | 1        | 1280x1024      | 1-way | -      | -   | Yes            | Yes  | -        | Yes                  |                     |
| Note:       | 1. Fps cannot be set to over 15 fps by cgi when it is 720P, but it can be set on web.(Camera Firmware Issue)<br>2. Sometimes setting by server is different with camera web. In fact, it sure has been set successfully.(Camera Firmware Issue)   |                   |          |                |       |        |     |                |      |          |                      |                     |
| TV-IP262PI  | refer to TV-IP262P(1.0.3)   | H.264 MJPEG       | 1        | 1280x1024      | 1-way | -      | -   | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP310PI  | V5.0.1 140303   | H.264             | 1        | 2048x1536      | -     | -      | -   | Yes            | Yes  | -        | Yes                  |                     |
| Note:       | 1. Second stream is unable to change bitrate. (Camera firmware issue)<br>2. Frame rate list over the corret range when the resolution is 2048x1536. (Camera fimware issue)<br>3. Second stream is unable to achieve maximun FPS, when resolution of main stream is 2048x1536. (Camera performance limitation) |                   |          |                |       |        |     |                |      |          |                      |                     |
| TV-IP311PI  | refer to TV-IP310PI(V5.0.1 140303)  | H.264             | 1        | 2048x1536      | -     | -      | -   | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP572P   | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP572PI  | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP572W   | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP572WI  | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP672P   | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP672PI  | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |
| TV-IP672W   | 1.1.2   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  |                     |
| Note:       | 1. Camera response slow due to digest authentication.(Camera Performace Issue)<br>2. Image setting for saturation will fail.(Camera Firmware Issue)   |                   |          |                |       |        |     |                |      |          |                      |                     |
| TV-IP672WI  | refer to TV-IP672W(1.1.2)   | H.264 MJPEG MPEG4 | 1        | 1280x800       | 1-way | -      | Yes | Yes            | Yes  | -        | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|---------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| TCS-200       | Enc: V1.104A-035   | H.264        | 1        | 720x576        | 1-way | 2/2    | Yes | Yes            | -    | Yes                  |         |
| TCS-2000      | Enc: V1.103C-005   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | -    | Yes                  |         |
| TCS-300       | Enc: V1.103C-005   | H.264 MJPEG  | 1        | 720x576        | 1-way | 2/2    | Yes | Yes            | -    | Yes                  |         |
| TCAM-3xx      | Enc: V1.103C-005   | H.264 MJPEG  | 1        | 720x576        | 1-way | 0/0    | Yes | Yes            | -    | Yes                  |         |
| Note:         | 1. TCAM-330, TCAM-351 and TCAM-370 are compatible with TCAM-3xx<br>2. Do not support NTSC on TCAM-3xx.   |              |          |                |       |        |     |                |      |                      |         |
| TCAM-530      | Enc: V1.103C-005   | H.264 MJPEG  | 1        | 1920x1280      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |         |
| TCAM-531      | Enc: V1.103C-005   | H.264 MJPEG  | 1        | 1280x960       | 1-way | 1/1    | -   | Yes            | -    | Yes                  |         |
| Note:         | TCAM-531, TCAM-531BIR and TCAM-551 are compatible with TCAM-531/531BIR/551   |              |          |                |       |        |     |                |      |                      |         |
| TCAM-540      | Enc: V1.103C-006   | H.264 MJPEG  | 1        | 1920x1280      | 1-way | 1/1    | -   | Yes            | -    | Yes                  |         |
| Note:         | Get severe broken image at the highest resolution 1920x1280, which will be improved in future new camera FW. (approx. three months later)  |              |          |                |       |        |     |                |      |                      |         |
| TCAM-570      | Enc: V1.103A-031   | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | -    | Yes                  |         |
| Note:         | The resolution for dual stream is 352x240, however, the quality is bad on 352x240 by connecting through HTTP. Please switch to other protocols.  |              |          |                |       |        |     |                |      |                      |         |
| Note:         | All cameras: The video @ H.264 with TCP protocol is not smooth in the conditions of high resolution, fps and bitrate, which will be improved in future camera FW. (approx. three months later) |              |          |                |       |        |     |                |      |                      |         |
| TN-B200CE     | Refer to TN-B202CEIR(V3.311R01)  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| TN-B202CEIR   | V3.311R01  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| TN-D1202CE    | Refer to TN-B202CEIR(V3.311R01)  | H.264        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| TN-P1220CS    | Refer to TN-P1222CGPLX(V3.311R01)  | H.264        | 1        | 1920x1080      | 1-way | -      | Yes | Yes            | Yes  | Yes                  |         |
| TN-P1222CGPLX | V3.311R01  | H.264        | 1        | 1920x1080      | 1-way | -      | Yes | Yes            | Yes  | Yes                  |         |
| TN-P1230CS    | Refer to TN-P1222CGPLX(V3.311R01)  | H.264        | 1        | 1920x1080      | 1-way | -      | Yes | Yes            | Yes  | Yes                  |         |
| TN-P3220CS    | Refer to TN-P1222CGPLX(V3.311R01)  | H.264        | 1        | 1920x1080      | 1-way | -      | Yes | Yes            | Yes  | Yes                  |         |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware                  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|--------------|----------------------------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| TN-P3220CSIR | V3.311R01                        | H.264        | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |         |
| TN-P3220CTIR | Refer to TN-P3220CSIR(V3.311R01) | H.264        | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |         |



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 \*1: not available on software  
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**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware               | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|-------------------------------|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| IPE1100      |                               | H.264<br>MPEG4<br>M-JPEG | 1        | 720x582        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IPE3100      |                               | H.264<br>MPEG4<br>M-JPEG | 1        | 768x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IPE3500      |                               | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IPE3500M     | 1.6.7                         | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPE4100      | 1.6.6                         | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 4/2    | Yes | Yes            | Yes  | Yes                  |                     |
| IPE5500      |                               | H.264<br>MPEG4<br>M-JPEG | 1        | 752x582        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IPE6500      |                               | H.264<br>MPEG4<br>M-JPEG | 1        | 752x582        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IPE7500      |                               | H.264<br>MPEG4<br>M-JPEG | 1        | 752x582        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IPN100HD     | 1.4.0.11                      | H.264<br>M-JPEG          | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN1202HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN2102HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN302HD     | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN3102HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN3202HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN3502HD    | 1.4.0.11                      | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN3502HD IR | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN6602HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPN6802HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPX3302HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPX3702HD    | Refer to IPN3502HD (1.4.0.11) | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IPX4202HD    | 1.4.1.8                       | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format       | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|--|--------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| IPX4602HD   | Refer to IPX4202HD (1.4.1.8)   | H.264 M-JPEG       | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| NVC1000     | 1.6.7  | H.264 MPEG4 M-JPEG | 1        | 720x576        | 1-way | 2/2    | Yes | Yes            | Yes  | Yes                  |         |
| NVC4000     | 1.6.7  | H.264 MPEG4 M-JPEG | 1        | 720x576        | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note:       | 1. NVC4000 is 4IP x 4channels video server<br>2. NVC4000-R12 and NVC4000-R40 are compatible with NVC4000   |                    |          |                |       |        |     |                |      |                      |         |
| Note:       | UDP cameras are likely disconnected if configuring camera parameter frequently. This is the known issue from camera vendor. When encountering this issue, please reboot the camera.                          |                    |          |                |       |        |     |                |      |                      |         |
| Note:       | UDP cameras are likely disconnected if setting up highest quality. This is the known issue from camera vendor. When encountering this issue, please reboot the camera, and do not set up this configuration. |                    |          |                |       |        |     |                |      |                      |         |



For multi stream support:  
Yes: multi stream fix to 500kbps/100kbps  
setting supportH.264 format

| Device Name     | Avtech model name   | Tested Firmware                                 | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Dual Stream Support | Remarks             |
|-----------------|---|---|--------------|----------|----------------|-------|--------|-----|----------------|------|---------------------|---------------------|
| Devet Tri Jedna | AVX931  | 1052-1028-1038-1008                             | H.264        | 1        | D1             | Yes   | 1/1    | Yes | Yes            | Yes  | Yes                 |                     |
| Note:           | Devet Tri Jedna<br>1. Unable to set camera FPS over 25. (Camera firmware issue)<br>2. Preset will not sync with web (Camera limitation issue)<br>3. In auto dual stream mode, bitrate of second and third streaming may not reach 500/100 kbps when main stream resolution is not D1. (NUUO software limitation)  |   |              |          |                |       |        |     |                |      |                     |                     |
| Ctyri Nula Nula | AVM400  | 1031-1007-1022-1003                             | H.264        | 1        | 1920x1080      | Yes   | 1/1    | -   | Yes            | Yes  | Yes                 |                     |
| Note:           | Ctyri Nula Nula<br>1. Audio stutter with G.711 when the camera with highest resolution.<br>2. The camera with highest quality and resolution is unable to achieve 30 fps  |   |              |          |                |       |        |     |                |      |                     |                     |
| Ctyri Dva Osm   | AVM428  | 1023-1007-1016-1003                             | H.264        | 1        | 1920x1080      | 2-way | 1/1    | -   | Yes            | Yes  | Yes                 |                     |
| Note:           | Ctyri Dva Osm<br>1. Audio is not smoothly<br>2. The framerate can not up to 30 when max resolution and best quality is selected.  |   |              |          |                |       |        |     |                |      |                     |                     |
| Ctyri Pet Devet | AVM459  | 1023-1007-1016-1003                             | H.264        | 1        | 1920x1080      | -     | 1/1    | -   | Yes            | Yes  | Yes                 |                     |
| Ctyri Pet Sedm  | AVM457  | Refer to Ctyri Pet Devet(FW1023-1007-1016-1003) | H.264        | 1        | 1920x1080      | -     | 1/1    | -   | Yes            | Yes  | Yes                 | Supported by design |
| Pet Sest Pet    | AVM565  | 1026-1017-1020-1007                             | H.264 M-JPEG | 1        | 1920x1080      | -     | 1/1    | Yes | Yes            | Yes  | Yes                 |                     |
| Note:           | Pet Sest Pet<br>1. PTZ function only support Zoom and Focus.<br>2. Camera with triple stream are unable to achieve 30fps.<br>3. Camera with resolution 1920x1080, 1fps, GOV 30 and H.264 format will difficult to connect the stream.<br>4. Camera with 1fps will difficult to connect.<br>5. If stream1 and stream 2 resolution are both 1920x1080, it will disconnect when using snopshot function. |   |              |          |                |       |        |     |                |      |                     |                     |
| Tri Pet Devet   | AVM359  | Refer to Tri Pet Sedm                           | H.264        | 1        | 1280x720       | -     | 1/1    | -   | Yes            | Yes  | Yes                 |                     |
| Note:           | Tri Pet Devet<br>1. The framerate can not up to 30 when max resolution and best quality is selected.  |   |              |          |                |       |        |     |                |      |                     |                     |
| Tri Pet Sedm    | AVM357  | 1050-1027-1034-1008                             | H.264        | 1        | 1280x720       | -     | 1/1    | -   | Yes            | Yes  | Yes                 |                     |
| Note:           | Tri Pet Sedm<br>1. The framerate can not up to 30 when max resolution and best quality is selected.   |   |              |          |                |       |        |     |                |      |                     |                     |

|                        |  |  |              |   |           |     |     |     |     |     |     |                     |
|------------------------|--|--|--------------|---|-----------|-----|-----|-----|-----|-----|-----|---------------------|
| <b>Pet Ctyri Dva</b>   | <b>AVM542</b>  | 1022-1014-1014-1010                              | H.264 M-JPEG | 1 | 1920x1080 | -   | 1/1 | -   | Yes | Yes | Yes | Supported by design |
| <b>Pet Ctyri Dva B</b> | <b>AVM542 B</b>  | Refer to Pet Pet Dva (FW 1022-1014-1014-1010)    | H.264 M-JPEG | 1 | 1920x1080 | Yes | 1/1 | -   | Yes | Yes | Yes | Supported by design |
| <b>Pet Dva Jedna</b>   | <b>AVM521</b>  | 1022-1014-1014-1010                              | H.264 M-JPEG | 1 | 1920x1080 | Yes | 1/1 | -   | Yes | Yes | Yes |                     |
| <b>Pet Nula Nula</b>   | <b>AVM500</b>  | 1022-1014-1014-1010                              | H.264 M-JPEG | 1 | 1920x1080 | Yes | 1/1 | -   | Yes | Yes | Yes |                     |
| <b>Pet Pet Dva</b>     | <b>AVM552</b>  | 1022-1014-1014-1010                              | H.264 M-JPEG | 1 | 1920x1080 | -   | 1/1 | -   | Yes | Yes | Yes |                     |
| <b>Pet Sest Jedna</b>  | <b>AVM561</b>  | 1025-1017-1017-1011                              | H.264 M-JPEG | 1 | 1920x1080 | -   | 1/1 | -   | Yes | Yes | Yes |                     |
| <b>Pet Sedm Jedna</b>  | <b>AVM571</b>  | 1049-1024-1028-1014-A1                           | H.264 M-JPEG | 1 | 1920x1080 | -   | 1/1 | Yes | Yes | Yes | Yes |                     |
| <b>Note:</b>           | Pet Sedm Jedna<br>1. The camera with highest resolution and MJPEG format is unable to achieve 30 |  |              |   |           |     |     |     |     |     |     |                     |
| <b>Tri Dva Osm</b>     | <b>AVM328</b>  | 1062-1028-1041-1008                              | H.264        | 1 | 1280x1024 | Yes | 1/1 | -   | Yes | Yes | Yes |                     |
| <b>Note:</b>           | Tri Dva Osm<br>1. Camera with triple stream are unable to achieve 30fps.                         |  |              |   |           |     |     |     |     |     |     |                     |
| <b>Tri Sest Pet</b>    | <b>AVM365</b>  | Refer to Tri Jedna Jedna (FW1054-1028-1036-1008) | H.264        | 1 | 1280x1024 | -   | 1/1 | -   | Yes | Yes | Yes | Supported by design |
| <b>Tri Jedna Sedm</b>  | <b>AVM317</b>  | 1054-1028-1036-1008                              | H.264        | 1 | 1280x1024 | Yes | 1/1 | -   | Yes | Yes | Yes |                     |
| <b>Tri Jedna Jedna</b> | <b>AVM311</b>  | 1054-1028-1036-1008                              | H.264        | 1 | 1280x1024 | -   | 1/1 | -   | Yes | Yes | Yes |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| NVS202      | 2014.10.14_v.1.1.5.20  | H.264 MJPEG  | 1        | 960x576        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | NVS202:<br>1. Transfer camera to different network segment will lead upnp search fail until camera update the latest IP in 24 hours. (Camera Limitation Issue)<br>2. Bitrate setting cannot be set more than 2M bps when camera is 960H and H.264 format. (Camera Firmware Issue)  |              |          |                |       |        |     |                |      |                      |                     |
| M2TiA       | VISION_2014.09.10_v.1.1.5.19   | H264         | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | M2TiA:<br>1. Snapshot are not supported due to camera limitation with 2nd stream format set to MJPEG. (Camera limitation issue)<br>2. Brightness setting is not synchronized with camera web. (Camera limitation issue)<br>3. When resolution of main stream is VGA, resolution of 2nd stream is not synchronized with camera web. (Camera firmware issue) |              |          |                |       |        |     |                |      |                      |                     |
| MTi         | VISION 1.1.5.10 20140109   | H264         | 1        | 1280x1024      | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| VD102i      | refer to M2TiA(VISION 1.1.5.10 20140109)   | H264         | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VD10M2      | refer to M2TiA(VISION_2014.09.10_v.1.1.5.19)   | H264         | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VN10M2      | refer to M2TiA(VISION_2014.09.10_v.1.1.5.19)   | H264         | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VN200i      | refer to M2TiA(VISION 1.1.5.10 20140109)   | H264         | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 1. Do not support MJPEG setting.<br>2. M2TiA sereies H264 D1 resolution can't be set. (camera firmware issue)<br>3. Brightness value can be changed, but has no effect.<br>4. NUUO use dual mode as connection.  |              |          |                |       |        |     |                |      |                      |                     |
| VISION i    | IP VISION 1.1.0.16 20120316  | MJPEG H264   | 1        | 720x480        | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:       | VISION i Camera : Sometimes audio from machine would fail, but there is chance to recover after reboot. (Hardware issue)   |              |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name               | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>VN6XSM2Ti-IR</b>       | refre to VN7XSM2Ti-IR(VISION_2014.09.10_v.1.1.5.19)   | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>VN7XSM2Ti-IR</b>       | VISION_2014.09.10_v.1.1.5.19  | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| <b>Vision Mi</b>          | 1.1.2.46  | MJPEG H264   | 1        | 1280x720       | 1-way | 1/1    | -   | Yes            | -    | Yes                  |                     |
| Note:                     | 1. Does not support Quality with MJPEG. (camera firmware issue)<br>2. When setup maximum setting of camera parameters, the real FPS could not reach original value on Web, such as 15 fps of H.264 within 1920x1080, 30 fps, and 7 quality; 5-6 fps of MJPEG within 1280x720, 30fps<br>3. Does not support audio setup  |              |          |                |       |        |     |                |      |                      |                     |
| <b>VISION M3i</b>         | 1.1.2.46  | MJPEG H264   | 1        | 1920x1080      | -     | 1/0    | Yes | Yes            | -    | Yes                  |                     |
| Note:                     | 1. Some M3i sub modeltype like VN7XSM3i has support PTZ. But VDA110SM3i not.<br>2. Does not support Quality with MJPEG. (camera firmware issue)<br>3. When setup maximum setting of camera parameters, the real FPS could not reach original value on Web, such as 15 fps of H.264 within 1920x1080, 30 fps, and 7 quality; 5-6 fps of MJPEG within 1280x720, 30fps |              |          |                |       |        |     |                |      |                      |                     |
| <b>VISION NVS102</b>      | IP VISION 1.1.0.16 20120316   | MJPEG H264   | 1        | 720x480        | 1-way | 1/1    | Yes | Yes            | -    | Yes                  |                     |
| Note:                     | VISION NVS102:<br>Support both of NTSC/PAL, but can be switched only on camera web.<br>Need to reboot camera after switched NTSC/PAL, then MainConsole will detect correct responding resolution.<br>PTZ speed : pan setting = tilt setting. Change one of pan or tilt, and then the other will change, too.  |              |          |                |       |        |     |                |      |                      |                     |
| <b>VISION M3Ti</b>        | 1.1.5.13 20140227   | H264         | 1        | QXGA           | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:                     | 1. It can not use Autofocus function. (camera firmware issue)<br>2. It will not support audio setup. (camera firmware issue)  |              |          |                |       |        |     |                |      |                      |                     |
| <b>VISION VDA101SM2Ti</b> | refre to VN7XSM2Ti-IR(VISION 2  | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>VPD202BM2Ti-IR</b>     | 1.1.5.20 20141113   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 4/2    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:                     | VPD202BM2Ti-IR:<br>1. In triple mode, bitrate of 2nd stream cannot reach to 500kbps. (Camera limitation issue)<br>2. Snapshot only support when 2nd stream format is MJPEG. (Camera limitation issue)   |              |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name               | Tested Firmware                                     | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>VISION VPD101PM2Ti</b> | refre to VN7XSM2Ti-IR(VISION_2014.09.10_v.1.1.5.19) | H.264        | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name         | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| VK2-1080BIR35V16e   | refer to VK2-1080VRDIR35V16e(1.1.8)   | H.264 MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VK2-1080BIR37e      | refer to VK2-1080VRDIR35V16e(1.1.8)   | H.264 MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VK2-1080BIR3V9F     | 2.0.3-T4_Release  | H.264 MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| Note:               | 1. Cannot setup the resolution to 1280x1024 and 1280x720 of Stream2 when the resolution of Stream 1 is 1920x1080. (Camera firmware issue)<br>2. Cannot setup the resolution to 1920x1080 and 1280x720 of Stream2 when the resolution of Stream 1 is 1280x1024. (Camera firmware issue)<br>3. Cannot setup the resolution to 1920x1080 and 1280x1024 of Stream2 when the resolution of Stream 1 is 1280x720. (Camera firmware issue)<br>4. Cannot setup the resolution to "Same as Stream 1" when the resolution of Stream 1 is equal to Stream 2. (Camera firmware issue)<br>5. Camera is unable to achieve maximum 25 FPS. (Camera firmware issue) |              |          |                |       |        |     |                |      |                      |                     |
| VK2-1080VFD3V9F     | 2.2.4-T3_Release  | H.264 MPEG4  | 1        | 1920x1080      | -     | 1/0    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:               | 1.VK21080VFD3V9F PTZ only support zoom & focus  |              |          |                |       |        |     |                |      |                      |                     |
| VK2-1080VFDIR37e    | refer to VK2-1080VRDIR35V16e(1.1.8)   | H.264 MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VK2-1080VRD         | 2.2.64  | H.264 M-JPEG | 1        | 1920x1080      | 1-way | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| VK2-1080VRD3V9      | 1.8.8-T4_Release  | H.264 MPEG4  | 1        | 1920x1080      | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |                     |
| VK2-1080VRDIR3V9F   | 1.7.0-T4_release  | H.264 MPEG4  | 1        | 1920x1080      | 1-way | 1/0    | Yes | Yes            | Yes  | Yes                  |                     |
| VK2-1080VRDIR35V16e | 1.1.8-T8_Release  | H.264 MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  |                     |
| VK2-1080VRDIR37e    | refer to VK2-1080VRDIR35V16e(1.1.8)   | H.264 MPEG4  | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| VK2-1080XVRDP TZ    | 1.2.1-X1_release  | H.264        | 1        | 1920x1080      | 1-way | 1/0    | Yes | Yes            | Yes  | Yes                  |                     |
| VK2-2MPVRD          | 2.2.64  | H.264 M-JPEG | 1        | 1600x1200      | 1-way | 2/0    | -   | Yes            | Yes  | Yes                  |                     |
| Note:               | VK2-1080VRD/VK2-2MPVRD: on-edge motion of video with M-JPEG codec works only as stream 1 is enabled on camera web.  |              |          |                |       |        |     |                |      |                      |                     |
| Note:               | VK2-1080VRD/VK2-2MPVRD: camera may be disconnected if users configure format as H.264 on one NVR and configure format M-JPEG on another.  |              |          |                |       |        |     |                |      |                      |                     |
| VK2-540VRD          | 2.1.8-release   | H.264 MPEG4  | 1        | 704x576        | 1-way | 1/0    | -   | Yes            | Yes  | Yes                  |                     |



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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|-------------|---|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| VK2-600PTZ  | 2.1.8-release   | H.264 MPEG4  | 1        | 704x576        | 1-way | 1/0    | Yes | Yes            | Yes  | Yes                  |         |
| Note:       | The operation of setting preset point is special because setting password is a must. We suggest users finish preset point settings on camera web.                           |              |          |                |       |        |     |                |      |                      |         |
| VK2-VGA VFD | 1.7.4-T2_release  | H.264 MPEG4  | 1        | 640x480        | -     | 1/0    | -   | Yes            | Yes  | Yes                  |         |
| Note:       | All cameras: modifying parameter frequently may lead to camera shutdown due to slow CGI response.   |              |          |                |       |        |     |                |      |                      |         |
| Note:       | All cameras: the port value we get is always 80 via UPnP search, which implies the cameras would be disconnected if users change HTTP port to another number on camera web. |              |          |                |       |        |     |                |      |                      |         |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware                                  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| AF5127      | Refer to FE8172 (FW FE8172-VVTK-0100f)           | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | *2     | -    | Yes            | *2   | Yes*                 | Supported by design |
| AF5127V     | Refer to FE8172 (FW FE8172-VVTK-0100f)           | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | *2     | -    | Yes            | *2   | Yes*                 | Supported by design |
| Note:       | AF5127 and AF5127V are fisheye camera            |                          |          |                |       |        |      |                |      |                      |                     |
| AB5353H     | Refer to IP8335H (FW 0100h)                      | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | *2     | -    | Yes            | *2   | Yes*                 | Supported by design |
| BB5315      | Refer to IP8332                                  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/0    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| BB5116      | Refer to IP8161                                  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| BD5115      | Refer to FD8134                                  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/0    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| CC8130      | 0100d  | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | 0/0    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | fisheye camera                                   |                          |          |                |       |        |      |                |      |                      |                     |
| FD61x2      |  | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 1/1    | -    | Yes            | Yes  | -                    | Supported by design |
| FD7130      | 0100e  | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | -      | -    | Yes            | Yes  | Yes                  |                     |
| FD7131      |  | MPEG4<br>M-JPEG          | 1        | 720x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| FD7132      | 0100f  | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| FD7141      | 0100g  | MPEG4<br>M-JPEG          | 1        | 720x480        | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:       | MPEG4: Unable to connect through HTTP.           |                          |          |                |       |        |      |                |      |                      |                     |
| FD7160      |  | MPEG4<br>M-JPEG          | 1        | 1600x1200      | -     | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| FD8131      | Refer to FD8133                                  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/0    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| FD8131V     | 0300d  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | *2     | -    | Yes            | *2   | Yes*                 |                     |
| FD8133      | Refer to FD8134                                  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/0    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | FD8133V are compatible with FD8133               |                          |          |                |       |        |      |                |      |                      |                     |
| FD8134      | 0100e  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/0    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | FD8134-SS and FD8134V are compatible with FD8134 |                          |          |                |       |        |      |                |      |                      |                     |
| FD8135H     | 0202C  | M-JPEG<br>H.264          | 1        | 1280x800       | 1-way | 3/1    | -    | Yes            | Yes  | Yes*                 |                     |





: not available on camera  
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 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|---------|------|----------------|------|----------------------|---------------------|
| Note:       | FW will casue I/O status incorrect and wrong resolution list              |                          |          |                |       |         |      |                |      |                      |                     |
| FD8136      | 0100f   | MPEG4<br>M-JPEG<br>H.264 | 1        | 1280x800       | 1-way | 1/0     | Yes* | Yes            | Yes  | Yes*                 | Tested by link      |
| FD8137H     | 0101a   | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/0(*2) | -    | Yes            | *2   | Yes*                 |                     |
| FD8137HV    | Refer to FD8137H(0101a)   | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/0(*2) | -    | Yes            | *2   | Yes*                 | Supported by design |
| FD8138-H    | Refer to IB8338-H(0100e)  | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/1     | -    | Yes            | Yes  | Yes*                 | Supported by design |
| FD8151V     | 0100c   | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way | *2      | -    | Yes            | *2   | Yes*                 | Tested by link      |
| FD8154      | 0100d   | H.264<br>MJPEG           | 1        | 1280x1024      | 1-way | 1/0     | -    | Yes            | Yes  | Yes*                 |                     |
| FD8155H     | Refer to IP816A-HP(0100f)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 3/1     | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| FD8161      | 0100h   | MPEG4<br>M-JPEG<br>H.264 | 1        | 1600x1200      | 1-way | 1/1     | -    | Yes            | Yes  | Yes*                 |                     |
| FD8162      | Refer to FD8362   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1     | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| FD8163      | 0101b   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | *2      | -    | Yes            | *2   | Yes*                 | Tested by link      |
| FD8164      | 0100d   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/0     | -    | *2             | *2   | Yes*                 | Tested by link      |
| FD8165H     | Refer to IP816A-HP(0100f)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 3/1     | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| FD8166      | 0100g   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | *2      | -    | Yes            | *2   | Yes*                 |                     |
| FD8168      | 0100e   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | -       | -    | Yes            | *2   | Yes*                 |                     |
| FD8169      | 0100f   | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -       | -    | Yes            | *2   | Yes*                 |                     |
| Note:       | Video parameter's range is displayed incorrectly. (Camera firmware issue) |                          |          |                |       |         |      |                |      |                      |                     |
| FD8171      | 0100e   | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | *2      | -    | Yes            | *2   | Yes*                 |                     |
| FD8181      | Refer to FD8381-EV(0101c)   | H.264<br>MJPEG           | 1        | 2560x1920      | 1-way | 1/1     | -    | Yes            | Yes  | Yes*                 | Supported by design |
| FD8335H     | 0101a   | H.264<br>MPEG4<br>M-JPEG | 1        | 1200x800       | 1-way | 3/1     | -    | Yes            | Yes  | Yes*                 | Tested by link      |
| FD8335H     | 0100g   | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way | *2      | -    | Yes            | *2   | Yes*                 | Tested by link      |
| FD8338-HV   | Refer to IB8338-H(0100e)  | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/1     | -    | Yes            | Yes  | Yes*                 | Supported by design |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| FD8355EHV   | Refer to IP816A-HP(0100f)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 3/1    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| FD8361      | 0100d1   | H.264<br>MPEG5<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| FD8365EHV   | Refer to IP816A-HP(0100f)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 3/1    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | FD8361 can't set other resolution on stream 3. (camera FW 0202b fixed.)  |                          |          |                |       |        |      |                |      |                      |                     |
| Note:       | FD8361L are compatible with FD8361   |                          |          |                |       |        |      |                |      |                      |                     |
| FD8362      | 0100f  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| FD8362E     | Refer to FD8362  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| FD8363      | 0102a  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| FD8365EHV   | 0100e  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | *2     | -    | Yes            | *2   | Yes*                 | Tested by link      |
| FD8367-V    | 0101b  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| FD8367-TV   | 0101b  | M-JPEG<br>H.264          | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| FD8371EV    | 0100i  | H.264<br>MPEG4<br>M-JPEG | 1        | 2048x1536      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| FD8372      | 0100f  | H.264<br>MPEG4<br>M-JPEG | 1        | 2580x1920      | 1-way | 3/1    | -    | Yes            | Yes  | Yes*                 | Tested by link      |
| Note:       | Mpeg4 support first 2 maximum resolutions are 1920x1920 & 1920x1536  |                          |          |                |       |        |      |                |      |                      |                     |
| FD8381-EV   | 0101c  | H.264<br>MJPEG           | 1        | 2560x1920      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | <ol style="list-style-type: none"> <li>When resolution large than 2048x2048, we don't support audio. (Camera firmware issue)</li> <li>Audio has noise. (Camera firmware issue)</li> <li>Snapshot's resolution is same as stream 3. (Camera limitation)</li> <li>Camera is unable to achieve high FPS.(Camera performance limitation)</li> <li>Smart stream will set fail. (Camera firmware issue)</li> </ol>                                   |                          |          |                |       |        |      |                |      |                      |                     |
| FE8171      | 0100d  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | fisheye camera   |                          |          |                |       |        |      |                |      |                      |                     |
| FE8172      | FE8172-VVTK-0100f  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | 1/1    | -    | -              | -    | Yes*                 |                     |
| Note:       | <ol style="list-style-type: none"> <li>Not support CBR mode</li> <li>MJPEG not support audio</li> <li>Not support AAC audio</li> <li>When resolution is 1360x786, video stream would have a white line at the left-bottom of the frame.</li> <li>If set to Full HD mode, the low profile video stream would have a color line at the bottom of frame.</li> <li>Link can not test UPnP and motion detection.</li> <li>Fisheye camera</li> </ol> |                          |          |                |       |        |      |                |      |                      |                     |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name      | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|------------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| <b>FE8172V</b>   | Refer to FE8172 (FW FE8172-VVTK-0100f)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | *2     | -    | -              | *2   | Yes*                 |                     |
| <b>FE8173</b>    | 0100c  | H.264<br>MPEG4<br>M-JPEG | 1        | 1536x1536      | 1-way | *2     | -    | Yes            | *2   | Yes*                 |                     |
| Note:            | fisheye camera   |                          |          |                |       |        |      |                |      |                      |                     |
| <b>FE8174</b>    | 0100e  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:            | Fisheye camera with manual calibration in Crystal  |                          |          |                |       |        |      |                |      |                      |                     |
| <b>FE8174V</b>   | Refer to FE8174(0100e)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:            | Fisheye camera with manual calibration in Crystal  |                          |          |                |       |        |      |                |      |                      |                     |
| <b>FE8180</b>    | 0100f  | H.264<br>MJPEG           | 1        | 1920x1920      | -     | -      | -    | Yes            | Yes  | Yes*                 |                     |
| Note:            | 1.The list of camera Mount Type is not synchronized with the one on camera's web.(Camera Firmware issue)<br>2. Frame rate can not achieve to setting value. (Camera performance limitation)  |                          |          |                |       |        |      |                |      |                      |                     |
| <b>FE8181</b>    | 0200b  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:            | Fisheye camera with manual calibration in Crystal<br>1. PTZ only support zoom.<br>2. Brightness & Contrast range is not synchronize with web.(Camera Firmware issue)<br>3. Snapshot will save stream3's resolution. (Camera Firmware issue)                    |                          |          |                |       |        |      |                |      |                      |                     |
| <b>FE8391-V</b>  | 0100f  | H.264<br>MJPEG           | 1        | 2944x2944      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:            | 1. Camera is unable to achieve maximum FPS and Bit rate.(Camera performance limitation)<br>2. Talk has noise.(Camera performance limitation)<br>3.The list of camera bit rate control is not synchronized with the one on camera's web.(Camera Firmware issue) |                          |          |                |       |        |      |                |      |                      |                     |
| <b>Generic</b>   | 0101b  | H.264<br>MPEG4<br>M-JPEG | 1        | All            | 1-way | 8/8    | Yes* | Yes            | Yes  | Yes*                 |                     |
| <b>IB8338-H</b>  | 0100e  | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| Note:            | 1. Audio has noise. (Camera firmware issue)<br>2. Snapshot's resolution is same as stream 3. (Camera limitation)<br>3. Smart stream will set fail. (Camera firmware issue)   |                          |          |                |       |        |      |                |      |                      |                     |
| <b>IB8367-RT</b> | 0100f  | H.264<br>MJPEG           | 1        | 1920x1080      | *2    | *2     | -    | *2             | *2   | Yes*                 |                     |
| <b>IB8369</b>    | 0100f  | H.264<br>M-JPEG          | 1        | 1920x1080      | -     | -      | -    | Yes            | *2   | Yes*                 |                     |
| Note:            | Video parameter's range is displayed incorrectly. (Camera firmware issue)  |                          |          |                |       |        |      |                |      |                      |                     |
| <b>IB8381</b>    | Refer to FD8381-EV(0101c)  | H.264<br>MJPEG           | 1        | 2560x1920      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 | Supported by design |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware | Video Format    | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|-----------------|-----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| IP21x1      |                 | M-JPEG          | 1        | 720x576        | -     | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP21x2      |                 | M-JPEG          | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP51x2      |                 | MPEG4           | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP51x4      |                 | MPEG4           | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP6114      |                 | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP6124      |                 | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP61x2      |                 | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP61x4      |                 | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP61X7      |                 | MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP7130      | 0100c           | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IP7131      |                 | MPEG4           | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP7132      |                 | MPEG4           | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | -                    | Supported by design |
| IP7133      | 0100b           | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IP7134      | 0100b           | MPEG4<br>M-JPEG | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IP7135      |                 | MPEG4           | 1        | 704x576        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| IP7137      |                 | MPEG4           | 1        | 704x576        | 1-way | -      | -   | Yes            | Yes  | -                    | Supported by design |
| IP7138      | 0101h           | MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| IP7139      |                 | MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IP7142      |                 | MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IP7151      |                 | MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| IP7152      |                 | MPEG4<br>M-JPEG | 1        | 704x576        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| IP7153      |   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| IP7154      | 0100b   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| IP7160      | 0101b   | MPEG4<br>M-JPEG          | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:       | IP7160-SS is compatible with IP7160   |                          |          |                |       |        |      |                |      |                      |                     |
| IP7161      |   | MPEG4<br>M-JPEG          | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | IP7161-SS is compatible with IP7161   |                          |          |                |       |        |      |                |      |                      |                     |
| IP71x7      |   | MPEG4                    | 1        | 704x576        | 1-way | 1/1    | -    | Yes            | Yes  | -                    | Supported by design |
| IP7251      | 0100f   | MPEG4                    | 1        | 640x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | MPEG4: Unable to connect through HTTP.  |                          |          |                |       |        |      |                |      |                      |                     |
| IP7330      |   | MPEG4<br>M-JPEG          | 1        | 640x480        | -     | 1/0    | -    | Yes            | Yes  | Yes                  | Supported by design |
| IP7361      |   | MPEG4<br>M-JPEG          | 1        | 1600x1200      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| IP8130      | 0100e   | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | *2     | -    | Yes            | *2   | Yes*                 |                     |
| IP8130W     | Refer to IP8130(0100e)  | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | *2     | -    | Yes            | *2   | Yes*                 | Supported by design |
| IP8131      | Refer to IP8131W(0100e)   | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | *2     | -    | Yes            | *2   | Yes*                 | Supported by design |
| IP8131W     | 0100e   | H.264<br>M-JPEG          | 1        | 1280x800       | 1-way | *2     | -    | Yes            | *2   | Yes*                 |                     |
| IP8132      |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/0    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| IP8133W     | 0100c   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | Due to the parameter limitation of stream 1, we take stream 2 as main stream for recording and liveview.  |                          |          |                |       |        |      |                |      |                      |                     |
| IP8151      | 0200a   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 | *                   |
| Note:       | 1. IP8151-SS and IP8151P are compatible with IP8151<br>2. This camera FW is under testing by manufacturer, so there are two issues existed which should be fixed in the official release: video stream of M-JPEG is not continuous; there is an image problem on resolution 176x144 @H.264. |                          |          |                |       |        |      |                |      |                      |                     |
| IP8152      | 0100e   | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way | 1/0    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | IP8152: CGI return a wrong PTZ capability   |                          |          |                |       |        |      |                |      |                      |                     |
| IP8155HP    | Refer to IP816A-HP(0100f)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 3/1    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio     | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-----------|---------|------|----------------|------|----------------------|---------------------|
| IP8155HP    | 0100d   | H.264<br>M-JPEG          | 1        | 1280x1024      | 1-way     | 3/1     | -    | Yes            | Yes  | Yes*                 |                     |
| IP8161      | 0100k   | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way     | 1/1     | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | IP8161-SS is compatible with IP8161   |                          |          |                |           |         |      |                |      |                      |                     |
| IP816A-HP   | 0100f   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way     | 3/1     | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Audio has noise. (Camera firmware issue)<br>2. Snapshot's resolution is same as stream 3. (Camera limitation)<br>3. Camera is unable to achieve high FPS. (Camera performance limitation)<br>4. Can't use Home. (Camera firmware issue)<br>5. PTZ speed range will not sync. with web. (Camera firmware issue) |                          |          |                |           |         |      |                |      |                      |                     |
| IP8162      | 0100f   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way     | 1/1     | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. IP8162P and IP8162-SS are compatible with IP8162<br>2. The frame rate of main stream decrease to the half if watching dual stream video, which is the limitation of camera HW.   |                          |          |                |           |         |      |                |      |                      |                     |
| IP8165HP    | Refer to<br>IP816A-<br>HP(0100f)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way     | 3/1     | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| IP8165HP    | 0100d   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way     | 3/1     | -    | Yes            | Yes  | Yes*                 |                     |
| IP8172      | 0100a0  | MPEG4<br>M-JPEG<br>H.264 | 1        | 2560x1920      | 1-way     | 1/1     | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | Not support CBR mode in MainConsole, MJPEG not support audio, Not support AAC audio   |                          |          |                |           |         |      |                |      |                      |                     |
| IP8173H     | 0100i   | MPEG4<br>M-JPEG<br>H.264 | 1        | 2048x1536      | 1-way(*2) | 1/0(*2) | *2   | Yes            | *2   | Yes*                 |                     |
| IP8330      | 0100e   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -         | 1/0     | -    | Yes            | Yes  | Yes*                 |                     |
| IP8331      | 0100c   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -         | 1/0     | -    | Yes            | Yes  | Yes*                 |                     |
| IP8332      |   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -         | 1/0     | -    | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | IP8332-SS is compatible with IP8332   |                          |          |                |           |         |      |                |      |                      |                     |
| IP8335H     | 0100h   | MPEG4<br>M-JPEG<br>H.264 | 1        | 1280x800       | 1-way     | 3/1     | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | IP8335H: Audio, I/O, Upnp ,PTZ can't testing by link<br>Use Vivotek 2nd stream with MPEG4 format as NUUO main stream and Vivotek 1st stream as NUUO 2nd stream  |                          |          |                |           |         |      |                |      |                      |                     |
| IP8336W     | 0102b   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way     | 1/0(*2) | -    | Yes            | *2   | Yes*                 |                     |
| IP8337H-C   | 0100b   | H.264<br>M-JPEG          | 1        | 1280x800       | -         | 1/0(*2) | -    | Yes            | *2   | Yes*                 |                     |
| IP8352      | 0100g   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way     | 1/1     | -    | Yes            | Yes  | Yes*                 | Supported by design |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio     | I/O Ch  | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-----------|---------|------|----------------|------|----------------------|---------------------|
| Note:       | I/O status is abnormal, which input and output cannot be triggered at the same time. Vivotek will fix the bug in next release, please upgrade to new camera FW then.   |                          |          |                |           |         |      |                |      |                      |                     |
| IP8355EH    | Refer to IP816A-HP(0100f)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way     | 3/1     | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| IP8355EH    | 0100e  | H.264<br>MJPEG           | 1        | 1280x1024      | 1-way     | *2      | -    | Yes            | *2   | Yes*                 |                     |
| IP8361      | 0100c  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way     | 1/1     | -    | Yes            | Yes  | Yes*                 | Tested by link      |
| IP8362      | 0100d  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way     | 1/0     | -    | Yes            | Yes  | Yes*                 | Supported by design |
| IP8364      | 0101a  | H.264<br>M-JPEG          | 1        | 1920x1080      | -         | 1/0(*2) | -    | Yes            | *2   | Yes*                 |                     |
| IP8365EH    | Refer to IP816A-HP(0100f)  | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way     | 3/1     | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| IP8365EH    | 0100e  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way     | *2      | -    | Yes            | *2   | Yes*                 |                     |
| IP8371E     | 0100g  | MPEG4<br>M-JPEG<br>H.264 | 1        | 2048x1536      | 1-way(*2) | 1/1(*2) | -    | *2             | *2   | Yes*                 |                     |
| IP8372      | 0100e  | MPEG4<br>M-JPEG<br>H.264 | 1        | 2560x1920      | 1-way     | *2      | -    | Yes            | *2   | Yes*                 | Tested by link      |
| IZ7151      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way     | 1/1     | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | PTZ Support: zoom only.  |                          |          |                |           |         |      |                |      |                      |                     |
| MD7530      | 0100d  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way     | 1/0     | -    | Yes            | Yes  | Yes                  |                     |
| MD7560      | 0100c  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way     | 1/0     | -    | Yes            | Yes  | Yes                  |                     |
| MD7560X     | Refer to MD7560  | H.264<br>MPEG4<br>M-JPEG | 1        | 1600x1200      | 1-way     | 1/0     | -    | Yes            | Yes  | Yes                  | Supported by design |
| MD8531H     | 0100h  | MPEG4<br>M-JPEG<br>H.264 | 1        | 1280x960       | 1-way     | *2      | -    | Yes            | *2   | Yes*                 |                     |
| Note:       | Video parameter setting is incorrect displayed.  |                          |          |                |           |         |      |                |      |                      |                     |
| MD8562      | 0100c  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way     | 1/0     | -    | Yes            | Yes  | Yes*                 |                     |
| Note:       | The frame rate of main stream decrease to the half if watching dual stream video, which is the limitation of camera HW.  |                          |          |                |           |         |      |                |      |                      |                     |
| MS8391-EV   | 0100e  | H.264<br>MJPEG           | 1        | 7552x1416      | *2        | *2      | -    | *2             | *2   | Yes*                 |                     |
| Note:       | 1. Framerate lists can not synchronize with web in resolution 768x144 & 7552x1416. (Camera Firmware Issue)<br>2. Brightness & Contrast range can not synchronize with web. (Camera Firmware Issue)<br>3. Camera is unable to achieve maximum FPS in maximum parameter. (Camera performance limitation) |                          |          |                |           |         |      |                |      |                      |                     |
| PD8136      | 0100e  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way     | 0/0     | Yes* | Yes            | *2   | Yes*                 |                     |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| Note:       | PD8136: No support zoom.   |                          |          |                |       |        |      |                |      |                      |                     |
| PT7000      |  | MPEG4                    | 1        | 720x576        | 1-way | -      | Yes* | Yes            | Yes  | -                    | Supported by design |
| PT7135      |  | MPEG4                    | 1        | 720x576        | 1-way | -      | Yes* | Yes            | Yes  | -                    | Supported by design |
| PT7137      |  | MPEG4                    | 1        | 704x576        | 1-way | -      | Yes* | Yes            | Yes  | -                    | Supported by design |
| PT8133      | 0100e  | MPEG4<br>M-JPEG<br>H.264 | 1        | 1280x800       | 1-way | -      | Yes* | Yes            | Yes  | Yes                  |                     |
| PZ61x2      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | -                    | Supported by design |
| PZ61x4      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | -                    | Supported by design |
| PZ7131      | 0100b  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| PZ7132      |  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| PZ7151      | 0101b  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | MPEG4: Unable to connect through HTTP.   |                          |          |                |       |        |      |                |      |                      |                     |
| PZ7152      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| PZ71X1      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| PZ71X2      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| PZ81x1      | 0100e  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 3/2    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | PZ-81x1W is compatible with PZ81x1   |                          |          |                |       |        |      |                |      |                      |                     |
| SD61x2      |  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 4/1    | Yes* | Yes            | Yes  | -                    | Supported by design |
| SD7151      | 0101d  | MPEG4<br>M-JPEG          | 1        | 720x576        | 1-way | 4/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | No audio support in M-JPEG format.<br>MPEG4: Unable to connect through HTTP.                 |                          |          |                |       |        |      |                |      |                      |                     |
| SD73X3      |  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 4/1    | Yes* | Yes            | Yes  | Yes                  | Supported by design |
| SD81X1      | 0100e  | MPEG4<br>M-JPEG          | 1        | 704x576        | 1-way | 4/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. SD8121-SS is compatible with SD81X1<br>2. SD81X1 : Audio, I/O, Upnp can't testing by link |                          |          |                |       |        |      |                |      |                      |                     |





: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| SD8362E     | 0104a   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 3/2    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. SD8362E-SS is compatible with SD8362E<br>2. SD8362E : Audio, I/O, Upnp can't testing by link<br>3. Work with SF8172 as PPTZ model  |                          |          |                |       |        |      |                |      |                      |                     |
| SD8363E     | 0202b   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | *2     | Yes* | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. Work with SF8172 as PPTZ model<br>2. Video parameter setting is incorrect displayed.   |                          |          |                |       |        |      |                |      |                      |                     |
| SD83x1      | Refer to SD83x3   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 3/2    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | SD83x1 and SD83x2 are detected as SD83x3.   |                          |          |                |       |        |      |                |      |                      |                     |
| SD83x2      | Refer to SD83x3   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 3/2    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | SD83x1 and SD83x2 are detected as SD83x3.   |                          |          |                |       |        |      |                |      |                      |                     |
| SD83x3      | 0102d   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 3/2    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note:       | SD83x3-SS is compatible with SD83x3   |                          |          |                |       |        |      |                |      |                      |                     |
| SD83x4      | 0200c   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 4/2    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| SD83x6      | 0200c   | H.264<br>MPEG4<br>M-JPEG | 1        | 720x480        | 1-way | 4/2    | Yes* | Yes            | Yes  | Yes*                 |                     |
| SD8362      | 0104a   | MPEG4<br>M-JPEG<br>H.264 | 1        | 1920x1080      | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 | Tested by link      |
| Note:       | Work with SF8172 as PPTZ model  |                          |          |                |       |        |      |                |      |                      |                     |
| SD8364E     | 0200d   | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | *2     | Yes* | Yes            | *2   | Yes*                 |                     |
| SD9364-EHL  | 0100h_15  | H.265<br>H.264<br>MJPEG  | 1        | 1920x1080      | *2    | 4/2    | Yes* | *2             | *2   | Yes*                 |                     |
| Note:       | 1. Camera can not achieve the settings of frame rate or bitrate. (Camera Firmware issue)  |                          |          |                |       |        |      |                |      |                      |                     |
| SF8172      | 0100d   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| SF8172V     | Refer to SF8172(FW 0100d)   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1920      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | SF8172 and SF8172V:<br>1. Support PPTZ.<br>2. Fisheye camera.<br>3. The first 1080p stream connection to camera can reach up to 30 fps, but the second 1080p stream connection can't. It is because of the constrain by CPU decode performance of camera. |                          |          |                |       |        |      |                |      |                      |                     |



: not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| SF8174      | 0100c   | MPEG4<br>M-JPEG<br>H.264 | 1        | 1920x1920      | 1-way | *2     | -    | Yes            | *2   | Yes*                 |                     |
| Note:       | 1. SD8363E and SF8174 are PPTZ<br>2. Fisheye camera.  |                          |          |                |       |        |      |                |      |                      |                     |
| TC5331      |   | MPEG4                    | 1        | 720x576        | 1-way | -      | -    | Yes            | Yes  | -                    | Supported by design |
| TC5630      |   | MPEG4                    | 1        | 720x576        | 1-way | -      | -    | Yes            | Yes  | -                    | Supported by design |
| TC5631      |   | MPEG4                    | 1        | 720x576        | 1-way | -      | -    | Yes            | Yes  | -                    | Supported by design |
| VS2101      |   | M-JPEG                   | 1        | 720x576        | -     | 1/1    | -    | Yes            | Yes  | -                    | Supported by design |
| VS2401      |   | M-JPEG                   | 4        | 720x576        | -     | 4/2    | -    | Yes            | Yes  | -                    | Supported by design |
| VS2402      |   | M-JPEG                   | 4        | 720x576        | -     | 4/2    | -    | Yes            | Yes  | -                    | Supported by design |
| VS2403      | 0103b   | M-JPEG                   | 4        | 720x576        | 1-way | 4/4    | Yes* | Yes            | Yes  | -                    |                     |
| VS7100      | 0101e   | MPEG4<br>M-JPEG          | 1        | 720x576        | -     | 1/1    | Yes* | Yes            | Yes  | Yes                  |                     |
| Note:       | MPEG4: Unable to connect through HTTP.  |                          |          |                |       |        |      |                |      |                      |                     |
| VS8100      | 0100g   | H.264<br>MJPEG           | 1        | 720x576        | 1-way | 0/0    | Yes* | Yes            | Yes  | Yes*                 |                     |
| VS8102      | 0202c2  | H.264<br>MPEG4<br>M-JPEG | 1        | 720x576        | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| VS8401      | 0201b   | H.264<br>MPEG4<br>M-JPEG | 4        | 720x480        | 1-way | 4/4    | Yes* | Yes            | -    | Yes*                 |                     |
| VS8801      | 0202a3  | H.264<br>MPEG4<br>M-JPEG | 8        | 720x576        | 1-way | 8/8    | Yes* | Yes            | Yes  | Yes*                 | *                   |
| Note:       | VS8801:<br>1. PTZ will be no response when Tilt speed 1~3<br>2. PTZ will be speed down when Pan speed 4~5 |                          |          |                |       |        |      |                |      |                      |                     |
| Note:       | Audio: All cameras don't support AAC audio codec, but GSM-AMR.  |                          |          |                |       |        |      |                |      |                      |                     |



**WatchNET®**  
Security Since 2000

- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name            | Tested Firmware   | Video Format   | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks |
|------------------------|---|----------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------|
| <b>MPIX-21DF</b>       | 2.420.WT0<br>0.0.T, build : 2014-06-19  | H.264<br>MJPEG | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 |         |
| Note:                  | 1. The range of parameter on camera will change by other parameter, our parameter dialog can't synchronize with camera. (Camera firmware issue)<br>2. The camera can't be search by auto detection function and UPNP tool. (Camera firmware issue)<br>3. When framerate set to 1 and record dynamic picture, the picture's framerate may rise to 30 immediately. (Camera firmware issue)  |                |          |                |       |        |     |                |      |                      |         |
| <b>MPIX-30-VDV-IRM</b> | 2.420.WT0<br>0.0.T  | H.264<br>MJPEG | 1        | 2048x1536      | -     | 1/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note:                  | 1. The range of parameter on camera will be changed by other parameter setting, thus our parameter dialog can't synchronize with camera.(Camera firmware issue)<br>2. Not support Zoom and Focus.(Camera firmware issue)<br>3. Not support UPnP search.(Camera firmware issue)<br>4. Not support Auto Detection.(Camera firmware issue)<br>5. The range of bitrate and value are different from camera web under MJPEG.(Camera firmware issue)<br>6. Get camera config will be failed when triple stream are MJPEG with highest parameter.(Camera performance limitation) |                |          |                |       |        |     |                |      |                      |         |
| <b>MPIX-50BIMR</b>     | 2.210.WT0<br>0.0.R  | H.264<br>MJPEG | 1        | 2560x1920      | 1-way | 2/1    | Yes | Yes            | Yes  | Yes                  |         |
| Note:                  | 1. The range of parameter on camera will be changed by other parameter setting, our parameter dialog can't synchronize with camera.(Camera firmware issue)<br>2. Not support UPNP search.(Camera firmware issue)<br>3. Not support Auto Detection.(Camera firmware issue)<br>4. Audio in with 16 KHz sampling rate is not supported.<br>5. PCM in audio format can't be used.(Camera firmware issue)<br>6. Sub stream can't be used in MJPEG.(Camera firmware issue)  |                |          |                |       |        |     |                |      |                      |         |



- : not available on camera  
\*1: not available on software  
\*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks        |
|-------------|-----------------|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|----------------|
| WK-SD6000HD | v1.4.1.8        | H.264 MJPEG  | 1        | 1920x1080      | 1-way | -      | *2  | *2             | *2   | *2                   | Tested by link |

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- : not available on camera  
 \*1: not available on software  
 \*2: not test on software  
 For multi stream support:  
 Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Snapshot | Remarks           |
|-------------|--|--------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|----------|-------------------|
| YUC-H626A   | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7926A  | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7926AM | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7982   | Refer to YUC-H7A82(VH1.0.0.3_Y)  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7982M  | Refer to YUC-H7A82(VH1.0.0.3_Y)  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H79882  | Refer to YUC-H7A82(VH1.0.0.3_Y)  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7A82   | VH1.0.0.3_Y  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      |                   |
| Note:       | 1. Camera cannot achieve maximum FPS with MJPEG and high resolution. (Camera performance limitation)<br>2. Stream 1 cannot achieve maximum FPS when stream 2 connect with MJPEG and high resolution in the same time. (Camera performance limitation)<br>3. Resolution list and bitrate list does not synchronize with web. (Camera Firmware issue)<br>4. Audio has noise. (Camera Firmware issue) |              |          |                |       |        |     |                |      |                      |          |                   |
| YUC-H7A26A  | VE1.0.20.10_Y  | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      |                   |
| Note:       | 1. Stream2 cannot achieve maimum FPS with connecting two streams simultaneously. (Camera performance limitation)<br>2. Audio codec only can choose G711. (Camera Firmware issue)   |              |          |                |       |        |     |                |      |                      |          |                   |
| YUC-H7A855  | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7B82   | Refer to YUC-H7A82(VH1.0.0.3_Y)  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7B82M  | Refer to YUC-H7A82(VH1.0.0.3_Y)  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-H7B882  | Refer to YUC-H7A82(VH1.0.0.3_Y)  | H.264 MJPEG  | 1        | 2688x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-HB26A   | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-HB855   | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-HC26A   | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |
| YUC-HC855   | Refer to YUC-H7A26A(VE1.0.20.10_Y)   | H.264 MJPEG  | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Yes      | Support by design |

|                   |                                     |             |   |           |       |     |   |     |     |      |     |                   |
|-------------------|-------------------------------------|-------------|---|-----------|-------|-----|---|-----|-----|------|-----|-------------------|
| <b>YUC-HD26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HD855</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HH26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HH855</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-Hi26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-Hi26AM</b> | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-Hi82</b>   | Refer to YUC-H7A82(VH1.0.0.3_Y)     | H.264 MJPEG | 1 | 2688x1520 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-Hi82M</b>  | Refer to YUC-H7A82(VH1.0.0.3_Y)     | H.264 MJPEG | 1 | 2688x1520 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-Hi882</b>  | Refer to YUC-H7A82(VH1.0.0.3_Y)     | H.264 MJPEG | 1 | 2688x1520 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HK26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HK855</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HL26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HL26AM</b> | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HL82</b>   | Refer to YUC-H7A82(VH1.0.0.3_Y)     | H.264 MJPEG | 1 | 2688x1520 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HL882</b>  | Refer to YUC-H7A82(VH1.0.0.3_Y)     | H.264 MJPEG | 1 | 2688x1520 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HMi855</b> | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HNi855</b> | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HP82</b>   | Refer to YUC-H7A82(VH1.0.0.3_Y)     | H.264 MJPEG | 1 | 2688x1520 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HQ26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HQ855</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |
| <b>YUC-HS26A</b>  | Refer to YUC-H7A26A(VE1.0.2_0.10_Y) | H.264 MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by design |

|                       |  |                |   |           |       |     |   |     |     |      |     |                      |
|-----------------------|--|----------------|---|-----------|-------|-----|---|-----|-----|------|-----|----------------------|
| <b>YUC-<br/>HS855</b> | Refer to YUC-<br>H7A26A(VE1.0.2<br>0.10_Y) | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by<br>design |
| <b>YUC-<br/>HV26A</b> | Refer to YUC-<br>H7A26A(VE1.0.2<br>0.10_Y) | H.264<br>MJPEG | 1 | 1920x1080 | 1-way | 1/1 | - | Yes | Yes | Yes* | Yes | Support by<br>design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|--------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>B5010</b> | Refer to Beward N600 (M2.0.9.13.1_ENG)   | H.264<br>MPEG4<br>M-JPEG | 1        | 640x480        | -     | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>B5110</b> | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>B5111</b> | M2.1.6.02C045  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. Camera with format MJPEG MPEG4 and high resolution is unable to achieve 30 fps. (Camera performance limitation)<br>2. Stream 2 & stream 3's resolution list can not sync with web. (Camera firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| <b>B5210</b> | M2.1.6.05  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. Resolution list can not synchronize with web in MPEG4. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| <b>B6110</b> | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| <b>B6210</b> | 03_C002  | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note         | 1. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)  |                          |          |                |       |        |     |                |      |                      |                     |
| <b>B6220</b> | 03_C002  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. Camera can not achieve the setting bit rate. (Camera Firmware issue)<br>2. Volume of camera audio-in is low. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| <b>B6320</b> | 01_C018  | H.264<br>H.265<br>M-JPEG | 1        | 2048x1520      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. H.265 starts from Crystal 3.2.<br>2. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)<br>3. Quality list can not synchronize with web. (Camera Firmware issue)<br>4. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue) |                          |          |                |       |        |     |                |      |                      |                     |
| <b>B6520</b> | 01_C018  | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:        | 1. H.265 starts from Crystal 3.2.<br>2. Camera web does not have WDR setting. (Camara Firmware issue)<br>3. Quality list can not synchronize with web. (Camera Firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |
| <b>B7210</b> | M2.1.6.04  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 2/2    | -   | Yes            | Yes  | Yes                  |                     |
| Note:        | 1. Setting will failed when setting the resolution to 640x360.(Camerat firmware issue)<br>2. Camera is unable to achieve maximum FPS.(Camera performance limitation)<br>3. Camera setting will fail randomly.(Camera firmware issue)   |                          |          |                |       |        |     |                |      |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name  | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks                |
|--------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|------------------------|
| <b>B7320</b> | M3.1.5.17  | M-JPEG<br>H.264          | 1        | 2048x1536      | 1-way | 2/2    | -    | Yes            | Yes  | Yes                  |                        |
| Note:        | 1. Not support audio in.   |                          |          |                |       |        |      |                |      |                      |                        |
| <b>B7510</b> | M3.1.5.19  | H264<br>MJPEG            | 1        | 2560x1920      | 1-way | 2/2    | -    | Yes            | Yes  | Yes                  |                        |
| <b>B8210</b> | M2.1.5.20  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes*                 |                        |
| Note:        | 1. Audio has noise with AMR. (Camera Firmware issue)<br>2. Camera with highest resolution is unable to achieve maximum FPS. (Camera performance limitation)<br>3. Move can't not move to center. (Camera Firmware issue)<br>4. Speed range is not synchronize with web. (Camera Firmware issue)  |                          |          |                |       |        |      |                |      |                      |                        |
| <b>B8220</b> | 01_C013  | H.264<br>H.265<br>MJPEG  | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes*                 |                        |
| Note:        | 1. H.265 starts from Crystal 3.2.<br>2. The max resolution of stream3 will not sync with camera web. (Camera firmware issue)<br>3. Audio has noise with AMR. (Camera firmware issue)<br>4. Not G.726 support. (NUUO server limitation)<br>5. Camera is unable to achieve maximum FPS when audio codec is AMR. (Camera performance limitation)  |                          |          |                |       |        |      |                |      |                      |                        |
| <b>B8520</b> | 01_C013  | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes*                 |                        |
| Note:        | 1. H.265 starts from Crystal 3.2.<br>2. Audio stutter with highest bitrate, quality, resolution. (Camera performance limitaion)<br>3. Camera with highest resolution and MJPEG format is unable to achieve maximum fps. (Camera performance limitation)<br>4. Sever resolution list is not same as web page with MJPEG format. (Camera Firmware issue)<br>5. Not support G.726. (NUUO server limitation) |                          |          |                |       |        |      |                |      |                      |                        |
| <b>D3100</b> | M2.1.6.02.0<br>830   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                        |
| Note:        | 1. Not support audio.  |                          |          |                |       |        |      |                |      |                      |                        |
| <b>D3200</b> | M2.1.6.02C0<br>66  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                        |
| Note:        | 1. There is no audio when using AMR 7.95<br>2. The talk function is unworked in AMR mode.<br>3. The max frame rate of MPEG4 is up to 20 FPS in 1920x1080 and 1280x800. It's the limitation of hardware   |                          |          |                |       |        |      |                |      |                      |                        |
| <b>D4210</b> | M2.1.5.11  | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                        |
| <b>D4211</b> | Refer to<br>D4210(M2.1.<br>5.11)   | H264<br>MJPEG            | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 | Supported<br>by design |
| <b>D4320</b> | 01_C014  | H.264<br>H.265<br>MJPEG  | 1        | 2048x1536      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                        |
| Note:        | 1. H.265 starts from Crystal 3.2.<br>2. Audio has noise. (Camera Firmware issue)<br>3. Not G.726 support. (NUUO server limitation)<br>4. Quality list may not be synchronized with camera web. (Camera Firmware issue)   |                          |          |                |       |        |      |                |      |                      |                        |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| D4520       | 01_C017   | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Quality list can not sync with web in MJPEG with high resolution. (Camera firmware issue)<br>2. Frame rate list can not sync with web. (Camera firmware issue)<br>3. Bitrate is unable to achieve setting value. (Camera performance limitation)<br>4. Frame rate is unable to achieve 30 fps in MJPEG with 1920x1080. (Camera performance limitation)<br>5. G.726 can not be used. (NUUO server limitation) |                          |          |                |       |        |     |                |      |                      |                     |
| D510E       | LM.1.6.16.03  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| D5110       | Refer to D5111  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | -     | 2/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| D5111       | MG.1.6.03P7_app7  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | -     | 2/2    | Yes | Yes            | Yes  | Yes                  |                     |
| D5112       | Refer to D5113 (M2.1.6.01)  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x720       | -     | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| D5113       | M2.1.6.01   | H.264<br>MJPEG<br>MPEG4  | 1        | 1280x720       | -     | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| D520E       | LM.1.6.16.03  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| D5210       | M2.1.6.04   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | -     | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | Due to camera restriction, some video setting will fail. This situation will be same as camera web. (Camera performance limitation)   |                          |          |                |       |        |     |                |      |                      |                     |
| D610A       | LM.1.6.16   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| D6111       | MG.0.6.01_C1  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| D611E       | LM.1.6.16   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| D6210       | 03_C002   | H.264<br>MJPEG           | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. Framerate is unable to achieve setting value in MJPEG 1920x1080. (Camera performance limitation)   |                          |          |                |       |        |     |                |      |                      |                     |
| D6220       | Refer to B6220(03_C002)   | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| D6320       | 01_C013   | H.264<br>H.265<br>M-JPEG | 1        | 2048x1520      | -     | -      | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. H.265 starts from Crystal 3.2.<br>2. Display mosaic happen in 2304x1296 MJPEG. (Camera performance limitation)<br>3. Quality list can not synchronize with web. (Camera Firmware issue)<br>4. Bitrate list can not synchronize with web in MJPEG. (Camera Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| D6520       | Refer to B6520(01_C018)   | H.264<br>H.265<br>MJPEG  | 1        | 2304x1296      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |



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 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| D7110       | MG.1.6.03P7_app7   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | -     | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| D7111       | Refer to D5113   | H.264<br>MJPEG<br>MPEG4  | 1        | 1280x720       | -     | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| D7210       | M2.1.6.02CO66  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 1. There is no audio when using AMR 7.95<br>2. The talk function is unworked in AMR mode.<br>3. The max frame rate of MPEG4 is up to 20 FPS in 1920x1080 and 1280x800. It's the limitation of hardware |                          |          |                |       |        |      |                |      |                      |                     |
| D7320       | M3.1.5.21  | H.264<br>M-JPEG          | 1        | 2048x1536      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:       | Frame rate can't reach setting value   |                          |          |                |       |        |      |                |      |                      |                     |
| D7510       | M3.04.15.CO1   | H.264<br>M-JPEG          | 1        | 2560x1920      | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. Framerate support 1~15 only.<br>2. Connecting stream by RTSP over HTTP in high video quality will cause delayed image and broken voice.   |                          |          |                |       |        |      |                |      |                      |                     |
| D8210       | Refer to B8210(M2.1.5.20)  | H.264<br>MJPEG           | 1        | 1920x1080      | 1-way | 2/2    | Yes  | Yes            | Yes  | Yes*                 | Supported by design |
| D8220       | Refer to B8220(01_C013)  | H.264<br>H.265<br>MJPEG  | 1        | 1920x1080      | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.  |                          |          |                |       |        |      |                |      |                      |                     |
| D8520       | Refer to B8520(01_C010)  | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| Note:       | 1. H.265 starts from Crystal 3.2.  |                          |          |                |       |        |      |                |      |                      |                     |
| F1100       | Refer to F1105   | MJPEG                    | 1        | 1280x720       | 1-way | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| F1105       | BP.1.6.01_C1   | MJPEG                    | 1        | 1280x720       | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| F210A       | LM.1.6.15  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| F3100       | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | -      | -    | Yes            | Yes  | Yes                  | Supported by design |
| F3101       | Refer to F3106   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | -      | -    | Yes            | Yes  | Yes                  |                     |
| F3102       | M2.1.6.02CO45  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -    | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 1. There is no audio when using AMR 7.95<br>2. The talk function is unworked in AMR mode.<br>3. The max frame rate of MPEG4 is up to 20 FPS in 1280x800. It's the limitation of hardware               |                          |          |                |       |        |      |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| F3105       | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| F3106       | MG.1.6.03C8  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| F3107       | M2.1.6.05  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | 1. 1.Audio via AMR has noises. (Firmware issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| F3110       | M2.1.6.02C045  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | 1. There is no audio when using AMR 7.95<br>2. The talk function is unworked in AMR mode.<br>3. The max frame rate of MPEG4 is up to 20 FPS in 1280x800. It's the limitation of hardware |                          |          |                |       |        |     |                |      |                      |                     |
| F3115       | M2.1.6.02C045  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | 1. There is no audio when using AMR 7.95<br>2. The talk function is unworked in AMR mode.<br>3. The max frame rate of MPEG4 is up to 20 FPS in 1280x800. It's the limitation of hardware |                          |          |                |       |        |     |                |      |                      |                     |
| F312A       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| F3201       | Refer to F3206   | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | -      | -   | Yes            | Yes  | Yes                  |                     |
| F3206       | M2.P2P_0314  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 2/2    | -   | Yes            | Yes  | Yes                  |                     |
| F3210       | M2.1.6.03C019  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| Note:       | For F3210, Video resolution can not change when only setting resoluion.  |                          |          |                |       |        |     |                |      |                      |                     |
| F3215       | M2.1.6.05C016  | H.264<br>M-JPEG<br>MPEG4 | 1        | 1920x1080      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 |                     |
| Note:       | Resolution list is not synchronized with camera web due to resolution setting limitation. (Camera limitation issue)  |                          |          |                |       |        |     |                |      |                      |                     |
| F5100       | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F5105       | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F510E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F510W       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F5110       | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F5115       | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F511E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| F511W       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F520E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F521E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F531E       | LM.1.6.18P9<br>_testport2  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F610A       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| F611E       | LM.1.6.16.00<br>7  | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  |                     |
| F7110       | MG.1.6.03P3<br>_r1072  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes                  |                     |
| F7115       | Refer to<br>F7110  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| F7210       | M2.1.6.04  | H.264<br>MPEG4<br>M-JPEG | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 |                     |
| F721A       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | -      | -   | Yes            | Yes  | Yes                  | Supported by design |
| F731E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | -   | Yes            | Yes  | Yes                  | Supported by design |
| Generic     | Tested by<br>P6210(2.1.5.<br>20)   | H.264<br>M-JPEG          | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | -    | Yes*                 |                     |
| Note:       | Generic:<br>1. It may fail to set Profile 2 to 1920x1080 or 1280x720. (Camera Firmware Issue)<br>2. Not support to set profile 3 to 1920x1080 or 1280x720; while the setting is supported in camera web. (Camera Firmware Issue) |                          |          |                |       |        |     |                |      |                      |                     |
| M510E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | PTZ Support: pan and tilt only   |                          |          |                |       |        |     |                |      |                      |                     |
| M510W       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | PTZ Support: pan and tilt only   |                          |          |                |       |        |     |                |      |                      |                     |
| M511E       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | PTZ Support: pan and tilt only   |                          |          |                |       |        |     |                |      |                      |                     |
| M511W       | LM.1.6.16.03   | MPEG4<br>M-JPEG          | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note:       | PTZ Support: pan and tilt only   |                          |          |                |       |        |     |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware                   | Video Format            | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|-----------------------------------|-------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| <b>N24320</b> | Refer to P4320(01_C 013)          | H.264<br>H.265<br>MJPEG | 1        | 2048x1520      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>Note:</b>  | 1. H.265 starts from Crystal 3.2. |                         |          |                |       |        |     |                |      |                      |                     |
| <b>N24520</b> | Refer to P4520(01_C 013)          | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>Note:</b>  | 1. H.265 starts from Crystal 3.2. |                         |          |                |       |        |     |                |      |                      |                     |
| <b>N36210</b> | Refer to B6210(03_C 002)          | H.264<br>MJPEG          | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N36220</b> | Refer to B6220(03_C 002)          | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N36320</b> | Refer to B6320(01_C 018)          | H.264<br>H.265<br>MJPEG | 1        | 2048x1536      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N36520</b> | Refer to B6520(01_C 018)          | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N38210</b> | Refer to B8210(02)                | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 2/2    | Yes | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N74320</b> | Refer to D4320 (01_C014)          | H.264<br>H.265<br>MJPEG | 1        | 2048x1536      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>Note:</b>  | 1. H.265 starts from Crystal 3.2. |                         |          |                |       |        |     |                |      |                      |                     |
| <b>N74520</b> | Refer to D4520 (01_C017)          | H.264<br>H.265<br>MJPEG | 1        | 2560x1920      | 1-way | 1/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N76210</b> | Refer to D6210(03_C 002)          | H.264<br>MJPEG          | 1        | 1920x1080      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N76220</b> | Refer to B6220(03_C 002)          | H.264<br>MJPEG          | 1        | 1920x1080      | 1-way | 2/1    | -   | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N76320</b> | Refer to D6320(01_C 013)          | H.264<br>H.265<br>MJPEG | 1        | 2304x1296      | -     | -      | -   | Yes            | Yes  | Yes*                 | Supported by design |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name   | Tested Firmware  | Video Format             | Video Ch | Max Resolution | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|---------------|--|--------------------------|----------|----------------|-------|--------|------|----------------|------|----------------------|---------------------|
| <b>N76520</b> | Refer to B6520(01_C018)  | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | -     | -      | -    | Yes            | Yes  | Yes*                 | Supported by design |
| <b>N78520</b> | Refer to B8520(01_C010)  | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | 1-way | 2/2    | Yes* | Yes            | Yes  | Yes*                 | Supported by design |
| <b>Note:</b>  | 1. H.265 starts from Crystal 3.2.  |                          |          |                |       |        |      |                |      |                      |                     |
| <b>P4320</b>  | 01_C013  | H.264<br>H.265<br>MJPEG  | 1        | 2048x1520      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| <b>Note:</b>  | 1. H.265 starts from Crystal 3.2.<br>2. Frame rate is unable to achieve setting value in H.265. (Camera performance limitation)<br>3. Quality list may not sync with web. (Camera Firmware issue)<br>4. Audio in G.726 can not we used. (NUUO server limitation)   |                          |          |                |       |        |      |                |      |                      |                     |
| <b>P4520</b>  | 01_C013  | H.264<br>H.265<br>MJPEG  | 1        | 2560x1920      | 1-way | 1/1    | -    | Yes            | Yes  | Yes*                 |                     |
| <b>Note:</b>  | 1. H.265 starts from Crystal 3.2.<br>2. Frame rate list does not sync with web. (Camera Firmware issue)<br>3. Quality list does not sync with web. (Camera Firmware issue)<br>4. Textures will be broken in MJPEG 2560x1920. (MJPEG 2560*1920會破圖)(Camera Firmware issue)<br>5. Multi-Stream Setting's auto mode can't setting correctly. (Camera Firmware issue) |                          |          |                |       |        |      |                |      |                      |                     |
| <b>P5110</b>  | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| <b>Note:</b>  | PTZ Support: pan and tilt only   |                          |          |                |       |        |      |                |      |                      |                     |
| <b>P5111</b>  | Refer to P5116   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| <b>P5115</b>  | MG.0.6.01_C1   | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x1024      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                     |
| <b>Note:</b>  | PTZ Support: pan and tilt only   |                          |          |                |       |        |      |                |      |                      |                     |
| <b>P5116</b>  | M2.1.6.02  | H.264<br>MPEG4<br>M-JPEG | 1        | 1280x800       | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                     |
| <b>Note:</b>  | 1. PTZ Support pan and tilt only.<br>2. There is no audio when using AMR 7.95<br>3. The max frame rate of MPEG4 and MJPEG is up to 20 FPS in 1280x800. It's the limitation of hardware.  |                          |          |                |       |        |      |                |      |                      |                     |
| <b>P5210</b>  | M2.1.6.05  | H.264<br>MJPEG<br>MPEG4  | 1        | 1920x1080      | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes*                 |                     |
| <b>Note:</b>  | 1. Camera can not achieve the setting bit rate. (Camera Firmware issue)  |                          |          |                |       |        |      |                |      |                      |                     |



- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Crystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware   | Video Format           | Video Ch | Max Resolution | Audio | I/O Ch | PTZ | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|---|------------------------|----------|----------------|-------|--------|-----|----------------|------|----------------------|---------------------|
| P6210       | M2.1.5.11   | H.264<br>M-JPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| Note:       | P6210:<br>1. Stream 2 CGI setting will fail when resolution of Profile3 is 1920x1080 and 1280x720. (Camera limitation)<br>2. The camera with higher quality and MJPEG format is unable to achieve 30 fps. (Camera limitation) |                        |          |                |       |        |     |                |      |                      |                     |
| P6211       | O2_C022   | H.264<br>M-JPEG        | 1        | 1920x1080      | 1-way | 1/1    | Yes | Yes            | Yes  | Yes*                 |                     |
| V1100       | M2.1.6.03   | H264<br>MJPEG<br>MPEG4 | 1        | 704x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  |                     |
| Note:       | AMR can't be used in audio in/out.  |                        |          |                |       |        |     |                |      |                      |                     |
| V111T       | LM.1.6.16.03  | MPEG4<br>M-JPEG        | 1        | 640x480        | 1-way | 1/1    | Yes | Yes            | Yes  | Yes                  | Supported by design |
| Note        | If enable Zavio analog video output function, it will not be able to get 2 <sup>nd</sup> stream from zavio camera.  |                        |          |                |       |        |     |                |      |                      |                     |





- : not available on camera  
 \*1: not available on software  
 \*2: not test on software

**For multi stream support:**

Yes: multi stream fix to 500kbps/100kbps  
 Yes\*: multi stream setting support in Cystal

**For PTZ:**

Yes\*: Joystick support to control PTZ speed in Crystal

| Device Name | Tested Firmware  | Video Format | Video Ch | Max Resolution      | Audio | I/O Ch | PTZ  | On-Edge Motion | UPnP | Multi Stream Support | Remarks             |
|-------------|--|--------------|----------|---------------------|-------|--------|------|----------------|------|----------------------|---------------------|
| N1011       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N1012       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N1031       |  | H.264 M-JPEG | 1        | 2048x1536           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N1032       |  | H.264 M-JPEG | 1        | 2048x1536           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N3011       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N3012       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N3031       |  | H.264 M-JPEG | 1        | 2048x1536           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N3032       |  | H.264 M-JPEG | 1        | 2048x1536           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N3071       | Refer to 3S N3072  | H264 M-JPEG  | 1        | 1600x1200           | 1-way | -      | -    | Yes            | -    | Yes                  |                     |
| N3072       | V1.13.0_STD-1  | H.264        | 1        | 1600x1200           | 1-way | 1/1    | Yes* | Yes            | Yes  | Yes*                 |                     |
| Note        | 1. The bit rate via MJPEG is too high. (Camera performance limitation)<br>2. The frame rate via MJPEG is unable to achieve maximum FPS. (Camera performance limitation)<br>3. Connection lost when frame rate is set to 1 fps. (Camera performance limitation)<br>4. Pan and tilt speed will set together. (Camera Firmware issue)<br>5. Down left, Down right, up left and up right will pan first and then still tilt. (Camera Firmware issue) |              |          |                     |       |        |      |                |      |                      |                     |
| N5012       | V1.01_STD-1  | H.264 MJPEG  | 1        | 1920x1080           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                     |
| Note        | HTTP port always 80 when using UPnP search.  |              |          |                     |       |        |      |                |      |                      |                     |
| N5013       | V1.04_STD-1  | H.264 MJPEG  | 1        | 704x576             | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  |                     |
| N5071       | V1.03_STD-1  | H264 M-JPEG  | 1        | 704x576/<br>704x480 | 1-way | -      | Yes  | Yes            | Yes  | Yes                  |                     |
| N6011       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N6012       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N6013       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N6014       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |
| N6015       |  | H264 MJPEG   | 1        | 2560x1920           | 1-way | 1/1    | Yes  | Yes            | Yes  | Yes                  | Supported by design |

|                |  |              |   |           |       |     |     |     |     |      |                     |
|----------------|--|--------------|---|-----------|-------|-----|-----|-----|-----|------|---------------------|
| <b>N6016</b>   |  | H264 MJPEG   | 1 | 2560x1920 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6031</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6032</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6033</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6034</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6035</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6036</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6037</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6038</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N6072</b>   | Refer to 3S N6075  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 1/1 | -   | Yes | Yes | Yes  | Supported by design |
| <b>N6073</b>   | Refer to 3S N6075  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 1/1 | -   | Yes | Yes | Yes  | Supported by design |
| <b>N6074</b>   | Refer to 3S N6075  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 1/1 | -   | Yes | Yes | Yes  | Supported by design |
| <b>N6075</b>   | V1.05_STD-1  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 1/1 | -   | Yes | Yes | Yes  |                     |
| <b>N6076</b>   | Refer to 3S N6075  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 1/1 | -   | Yes | Yes | Yes  | Supported by design |
| <b>N6077</b>   | Refer to 3S N6075  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 1/1 | -   | Yes | Yes | Yes  | Supported by design |
| <b>N6082</b>   | Refer to N9085(V1.05.0)  | H.264        | 1 | 1600x1200 | -     | -   | -   | Yes | Yes | Yes* | Supported by design |
| <b>N8011</b>   |  | H264 MJPEG   | 1 | 2560x1920 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N8012</b>   |  | H264 MJPEG   | 1 | 2560x1920 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N8031</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N8032</b>   |  | H.264 M-JPEG | 1 | 2048x1536 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |
| <b>N8072</b>   | V1.03_STD-1  | H264 M-JPEG  | 1 | 1600x1200 | 1-way | 0/0 | -   | Yes | -   | Yes  |                     |
| <b>N8072-C</b> | V1.04.0_STD-1  | H.264        | 1 | 1600x1200 | 1-way | -   | -   | Yes | Yes | Yes* |                     |
| Note:          | 1. The actual audio codec is different with the setting codec. (Camera Firmware issue)<br>2. The stream 3's fps range is different to web. (Camera Firmware issue) |              |   |           |       |     |     |     |     |      |                     |
| <b>N9012</b>   |  | H264 MJPEG   | 1 | 2560x1920 | 1-way | 1/1 | Yes | Yes | Yes | Yes  | Supported by design |

|              |   |                 |   |                     |       |     |      |     |     |      |                        |
|--------------|---|-----------------|---|---------------------|-------|-----|------|-----|-----|------|------------------------|
| <b>N9018</b> | V1.01_STD-1   | H.264<br>MJPEG  | 1 | 1920x1080           | 1-way | 1/1 | -    | Yes | Yes | Yes  |                        |
| Note:        | 1.Audio toned with G.726/32.[camera firmware issue]<br>2.The image of snapshot to FTP is use MJPEG stream.[camera firmware issue]                       |                 |   |                     |       |     |      |     |     |      |                        |
| <b>N9032</b> |   | H.264<br>M-JPEG | 1 | 2048x1536           | 1-way | 1/1 | Yes  | Yes | Yes | Yes  | Supported<br>by design |
| <b>N9033</b> |   | H.264<br>M-JPEG | 1 | 2048x1536           | 1-way | 1/1 | Yes  | Yes | Yes | Yes  | Supported<br>by design |
| <b>N9034</b> |   | H.264<br>M-JPEG | 1 | 2048x1536           | 1-way | 1/1 | Yes  | Yes | Yes | Yes  | Supported<br>by design |
| <b>N9071</b> | V1.06_STD-1   | H264<br>M-JPEG  | 1 | 1600x1200           | 1-way | 0/0 | -    | Yes | Yes | Yes  |                        |
| <b>N9073</b> | Refer to<br>N3072(V1.13.<br>O_STD-1)  | H.264           | 1 | 1600x1200           | 1-way | 1/1 | Yes* | Yes | Yes | Yes* | Supported<br>by design |
| <b>N9074</b> | Refer to<br>N3072(V1.13.<br>O_STD-1)  | H.264           | 1 | 1600x1200           | 1-way | 1/1 | Yes* | Yes | Yes | Yes* | Supported<br>by design |
| <b>N9082</b> | Refer to<br>N9085(V1.05.<br>0)  | H.264           | 1 | 1600x1200           | -     | -   | -    | Yes | Yes | Yes* | Supported<br>by design |
| <b>N9085</b> | V1.05.0   | H.264           | 1 | 1600x1200           | -     | -   | -    | Yes | Yes | Yes* |                        |
| Note:        | 1.The minimum stream's bitrate is too high. (Camera performance limitation)<br>2. The stream 3's fps range is different to web. (Camera Firmware issue) |                 |   |                     |       |     |      |     |     |      |                        |
| <b>S4071</b> | V1.04_STD-1   | H264<br>M-JPEG  | 4 | 704x576/<br>704x480 | 1-way | 4/4 | Yes  | Yes | Yes | Yes  |                        |
| Note:        | 1. The quality setting of M-JPEG is unavailable.<br>2. When the server attaches two or more channels, the maximal framerate is unstable.                |                 |   |                     |       |     |      |     |     |      |                        |