

## Release Version 1.3.0 (2011/12/5)

### Modules

Item	Version		
FW	NVR	NE-2020	01.03.0002.0065
		NE-2040	01.03.0004.0065
		NE-4080	01.03.0008.0065
		NE-4160	01.03.0016.0065
	Camera Package	01.03.0000.0065	
Application	Install Wizard	1.0.0.21	
	Remote Live Viewer	2.8.1.7	
	Playback System	2.8.1.7	
	Backup System	2.8.1.7	
	Verification Tool	2.8.1.7	
	Offline License Tool	1.0.1.47	
Document	User manual	1.3.0	
	QSG	1.3.0	

### New Features

1. Output duration: control the duration of output as it's triggered.
2. **Dual stream**
  - Dahua
  - Everfocus
  - Forenix
  - Samsung<sup>1</sup>
  - Sunell
  - UDP

### Enhancement

1. Enhance POS search mechanism.
  - Test Summary
    - ✓ We recommend "searching by date", however, if the size of each transaction data is under 1KB<sup>2</sup>, user can search 3-day's data at a time.
    - ✓ "Searching by date and playing" works properly under the conditions of "recording 33000 transactions per day, accumulating 3 million in three months and **the average size of each transaction data is under 3KB**"
  - Known Issue
    - ✓ The search engine doesn't work sometimes, if users encounter this issue, please try to search again.
2. Enhance the audio playing mechanism that audio is playing properly even under the circumstances of relative poor network.

### Bug Fixed

1. Fixed Install Wizard's bug that there is no server searched sometimes.
2. eSATA LED on front panel should be on as well while external device (i.e. DAS) connected with first eSATA port.
3. Fixed the issue that motion detection function doesn't work on Sony 3<sup>rd</sup> and 4<sup>th</sup> generation cameras<sup>3</sup>.
4. Fixed the issue that camera parameter of Panasonic i-pro series cameras "may" be reset to default as camera reconnects after camera disconnected a while and NVR was trying to

<sup>1</sup> SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100

<sup>2</sup> 1KB is approx. 1000 characters

<sup>3</sup> SNC-CM120, SNC-CS20, SNC-CS50, SNC-DF50, SNC-DF80, SNC-DF85, SNC-DM110, SNC-DM160, SNC-DS10, SNC-DS60, SNC-RX530, SNC-RX550, SNC-RX570, SNC-RZ50

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reconnect it.

5. Fixed the parameter settings of Panasonic WV-SP102 and WV-SP105.
6. Fixed the issue that bit rate of Panasonic DG-SF334 cannot be modified.
7. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.
8. Vivotek IP71XX series cameras are compatible with iViewer.
9. Upgrade camera FW to XNET.A1-1.1.11.0706 to fix IVP4030VR/IDP4030VR main stream disconnection issue as querying dual stream.

## New Camera Supported

1. Arecont: AV1325, AV2825, AV8185DN
2. Axis: M3113-R, M3113-VE, M3114-VE, M5013, M5014, M7001, P3304, P3304-V, P5512, P5512-E, P5522, P5522-E, Q6032, Q6034-E, Q6035, Q6035-E
3. CNB: IDC4050F, IDC4050IR, IDC4050VF, IDC4050VR, IGC2050F, IS1765x, ISMC1063x, ISS2965x, ISSM2063x, IVC5055VF, IVC5055VR, IXC2050IR
4. **Dahua**: HDB3300N, HDB3300P, HDBW3300N, HDBW3300P, HF3110N, HF3110P, HF3211P, HF3300N, HF3300N-W, HF3300P, HF3300P-W
5. **Everfocus**: EAN3200, EAN800A, EAN800AW, EAN850A, EAN900, EDN3240, EDN800, EDN850H, EHN3200, EPN3100, EPN3600, EQN2200, EQN2201, EVS200A, EVS200AW, EVS410, EZN3240, EZN850
6. **Forenix**: ACDV-3VM501, AEP-Q2018HW-IP, AEP-Q2026HW-IP, AEP-Q2036HW-IP, ASP-PTIR737-IP, ASP-PTIR737-LA-IP, ATCP-IRH5030C, ATCP-IRH5040C, ATCP-MH802, ATCP-MH802DN, ATCP-MH802DN/WI, ATCP-MH802WI, ATCP-VM501, AWB-H811, AWB-H814, B0100, B1100, C1100, C1100-W, C2100, D0100, D1100, D2100, GE-100-VS
7. Mobotix: M24, T24
8. Samsung: SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100
9. **Sunell**: SN-IPC54/11DN, SN-IPC54/12DN, SN-IPC54/20DN, SN-IPC54/50DN, SN-IPD54/11DN, SN-IPD54/12DN, SN-IPR54/50DN, SN-IPS54/60DN/Z18, SN-IPS54/60DN/Z36, SN-IPV54/11DN, SN-IPV54/12DN, SN-IPV54/50DN, SN-IPV54/50DR
10. **UDP**: IPE1100M, IPE3100, IPE3500, IPE3500M, IPE4100, IPE5500, IPE6500, IPE7500, NVC1000, NVC4000, NVC4000-R12, NVC4000-R40
11. Vivotek: FE8171V, IP8133W, IP8352, IP8362, VS8102 (New FW)

## Appendix

### Stream profile (updated)

- Original
- Low: under 300kbps; designed for mobile client single-view
- Minimum: under 100 kbps; designed for mobile client multi-view

Brand/Series	Low Profile		Minimum Profile	
	Resolution	Framerate	Resolution	Framerate
ACTi	CIF	3~6	CIF	1~2
Arecont	half	3	half	1
Axis	CIF	5	QCIF	5
Brickcom	CIF	10	CIF	4
CNB 1	CIF~SXGA	0.1~10	CIF~SXGA	0.1~10
CNB 2	QVGA~D1	0.1~10	QVGA~D1	0.1~10
CNB 3	QVGA~D1	0.1~10	QVGA~D1	0.1~10
Dahua	CIF	5	CIF	2
Dahua (HF3211P)	D1~1080p	0.1~10	D1~1080p	0.1~10
Dynacolor	QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
Eneo 1	QCIF~Full D1	0.1~10	QCIF~Full D1	0.1~10
Eneo 2	QCIF~Half	0.1~10	QCIF~Half	0.1~10

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	D1		D1	
Eneo 3	CIF~Full D1	0.1~10	CIF~Full D1	0.1~10
Eneo 4	CIF	5	CIF	2
Eneo 5	CIF	15	CIF	5
EverFocus (ONVIF)	QCIF~UXGA	0.1~6	QCIF~UXGA	0.1~6
EverFocus (Others)	QVGA	5	QVGA	1.5
Fine	CIF	1~3	CIF	0.1~1.5
Forenix	CIF	1~3	CIF	0.1~0.5
Grundig	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
Honeywell	640x368	15	640x368	5
Mobotix	CIF	3	QCIF	2
NetworkCamera	CIF	10	CIF	4
Panasonic BB/BL	CIF	4	QCIF	2
Panasonic i-pro 3 megapixel	VGA	1	VGA	0.5
Panasonic i-pro others	CIF	2	CIF	1
Pelco	CIF~D1	0.1~10	CIF~D1	0.1~10
Samsung	CIF	6	CIF	2
SANTEC (D1)	VGA	1~3	VGA	0.3~0.8
SANTEC (1.3 Mega)	VGA~D1	1~3	VGA~D1	0.3~0.8
SANTEC (3 Mega)	VGA~3M	1~3	VGA~3M	0.3~0.8
SANTEC (video server)	VGA~D1	1~3	VGA~D1	0.3~0.8
Sanyo HD1, HD3, HD4	CIF~VGA	3	CIF~VGA	1
Sanyo HD2	CIF~4 Mega	0.1~3	CIF~4 Mega	0.1~3
Sony	QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
StarDot	CIF	3	CIF	1
Sunell	D1~QCIF	0.1~10	D1~QCIF	0.1~10
TRUEN	CIF~Full D1	0.1~10	CIF~Full D1	0.1~10
UDP	QVGA~VGA	0.1~10	QVAG~VGA	0.1~10
Vidosec 1	QVGA	5	QQVGA	5
Vidosec 2	CIF~Full HD	0.1 ~ 10	CIF~Full HD	0.1 ~ 10
Vivotek 7000v2/8000 (General)	CIF	5	CIF	2
Vivotek 7000v2/8000 (2 Mega)	CIF	3	QCIF	3
Vivotek 8000 (VS series)	QCIF~D1	0.1~10	QCIF~D1	0.1~10
Vivotek 8000 (IP8330/IP8332/IP8352)	CIF	3	CIF	1
Vivotek 8000 (IP8362)	CIF	5	CIF	3
Zavio	CIF	5	QCIF	3
Zavio (Mega)	CIF	7	CIF	2

CNB 1: IGx10xx, ixP40xx ixP4000xx

CNB 2: INS2000/IBxxxx/Xpeed IP

CNB 3: IGx2050F, IDC4050xx, IXC8050IR, IVC5050xx, IVP5055xx, IDP5055xx, IXP3055VR

Eneo 1: GLS-1701/IR

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Eneo 2: GLS-2104  
 Eneo 3: GLS-2301H  
 Eneo 4: NLC-1401, NLD-1401, NLS-1401  
 Eneo 5: NXC-1301M, NXC-1302M, NXC-1401M, NXC-1402M, NXD-1301M, NXD-1302M, NXD-1401M, NXD-1402M  
 EverFocus (ONVIF): EQN2200, EQN220  
 Samsung: SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100  
 Sanyo HD1: VCC-HD2500, VDC-HD3500  
 Sanyo HD2: VCC-HD2100, VCC-HD2300, VDC-HD3100, VDC-HD3300  
 Sanyo HD3: VCC-HD5400, VCC-HD5600  
 Sanyo HD4: VCC-HD4600  
 Videosec 1: IBF-211, IDA-210, IP-206M, IS-240  
 Videosec 2: ICS-13, ICS-20F, ID-20

**Visit NUUO wiki for full NVRmini supported cameras on mobile clients:**

[http://support.nuuo.com/mediawiki/index.php/NVRmini\\_supported\\_cameras\\_on\\_mobile\\_clients](http://support.nuuo.com/mediawiki/index.php/NVRmini_supported_cameras_on_mobile_clients)


## New Camera Support

### Arecont



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
AV1325		H.264 M-JPEG	1	1280x1024	-	-	-	Yes	-	Yes	Supported by design
AV2825		H.264 M-JPEG	1	1920x1080	-	1/1	-	Yes	-	Yes	Supported by design
AV8185DN		H.264 M-JPEG	4	1600x1200	-	-	-	Yes	-	Yes	Supported by design

### AXIS



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
M3113-R		H.264 M-JPEG	1	800x600	-	-	Yes	Yes	Yes	Supported by design
M3113-VE		H.264 M-JPEG	1	800x600	-	-	Yes	Yes	Yes	Supported by design
M3114-VE		H.264 M-JPEG	1	1280x800	-	-	Yes	Yes	Yes	Supported by design
M5013		H.264 M-JPEG	1	800x600	1-way	-	Yes	Yes	Yes	Supported by design
M5014		H.264 MPEG4	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported by design
M7001		H.264 M-JPEG	1	720x576	-	-	Yes	Yes	Yes	Supported by design

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<b>P3304</b>		H.264 M-JPEG	1	1280x800	1-way	1/1	Yes	Yes	Yes	Supported by design
<b>P3304-V</b>		H.264 M-JPEG	1	1280x800	1-way	1/1	Yes	Yes	Yes	Supported by design
<b>P5512</b>		H.264 M-JPEG	1	704x480	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>P5512-E</b>		H.264 M-JPEG	1	704x480	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>P5522</b>		H.264 M-JPEG	1	720x480	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>P5522-E</b>		H.264 M-JPEG	1	720x480	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>Q6032</b>		H.264 M-JPEG	1	752x480	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>Q6034-E</b>		H.264 M-JPEG	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported by design
<b>Q6035</b>		H.264 M-JPEG	1	1280x720	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>Q6035-E</b>		H.264 M-JPEG	1	1280x720	1-way	-	Yes	Yes	Yes	Supported by design

## CNB



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>IDC4050F</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IDC4050IR</b>	XNET.M1-1.10.11.0822	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
<b>IDC4050VF</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IDC4050VR</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design

Note: Camera issue: image may be broken apparently under high parameter settings.

<b>IGC2050F</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IS1765x</b>	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	1/1	Yes	-	Yes	Supported by design
<b>ISMC1063x</b>	XNET.A1-1.01.11.0125	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	Yes	Yes	
<b>ISS2965x</b>	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported by design

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<b>ISSM2063x</b>	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported by design
<b>IVC5055VF</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IVC5055VR</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IXC2050IR</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design

## Dahua



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>HDB3300N</b>		H.264 M-JPEG	1	2048x1536	1-way	2/1	Yes	Yes	-	Supported by design
<b>HDB3300P</b>		H.264 M-JPEG	1	2048x1536	1-way	2/1	Yes	Yes	-	Supported by design
<b>HDBW3300N</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048x1536	1-way	2/1	Yes	Yes	-	
<b>HDBW3300P</b>		H.264 M-JPEG	1	2048x1536	1-way	2/1	Yes	Yes	-	Supported by design
<b>HF3110N</b>		H.264 M-JPEG	1	1280x960	1-way	1/1	Yes	Yes	-	Supported by design
<b>HF3110P</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1280x960	1-way	1/1	Yes	Yes	-	
<b>HF3211P</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1920x1080	1-way	2/1	Yes	Yes	-	
<b>HF3300N</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	-	
<b>HF3300N-W</b>		H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	-	Supported by design
<b>HF3300P</b>		H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	-	Supported by design
<b>HF3300P-W</b>		H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	-	Supported by design

Note: HP3300 series: there may be image noise of dual stream, which can be observed from the camera web as well.


Note: Setting preset point doesn't work properly.

Note: PTZ is only supported by external RS-485 device.

## Everfocus

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Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
EAN3200	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EAN800A	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	
EAN800AW	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	Supported by design
EAN850A	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	
EAN900	1.2.5	H.264 MPEG4 MJPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	
Note:	Fix stream 1 as recording stream and fix stream 2 for mobile client used.									
EDN3240	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EDN800	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	
EDN850H	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	
EHN3200	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EPN3100	1.2.14	H.264 MPEG4 MJPEG	1	704x576	1-way	4/2	Yes	Yes	Yes	Supported by design
EPN3600	1.2.14	H.264 MPEG4 MJPEG	1	704x576	1-way	4/2	Yes	Yes	Yes	
EQN2200	1.0.27	H.264 MJPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
EQN2201	1.0.27	H.264 MJPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
EVS200A	1.2.8	H.264 MPEG4 MJPEG	2	704x576	1-way	2/2	Yes	Yes	Yes	
EVS200AW	1.2.8	H.264 MPEG4 MJPEG	2	704x576	1-way	2/2	Yes	Yes	Yes	Supported by design
EDN3240	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
Note:	EVS200A/EVS200AW: Fix stream 1 as recording stream and fix stream 2 for mobile client used. PTZ is only supported by external RS-485 device.									
EVS410	1.0.14	H.264 MJPEG	4	704x480	1-way	4/1	Yes	Yes	Yes	

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Note:	PTZ is only supported by external RS-485 device.									
EZN3240	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EZN850	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	Yes	Yes	Yes	
Note:	PTZ: support focus only.									

## Forenix



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
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-IRH503 0C		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-IRH504 0C		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
ATCP-MH802DN		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-MH802DN/WI		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-MH802WI		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-VM501		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
AWB-H811		H.264 M-JPEG	1	720x480	-	2/2	Yes	Yes	Yes	Supported by design
AWB-H814		H.264 M-JPEG	1	720x576	-	4/4	-	Yes	Yes	Supported by design



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<b>B0100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>B1100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>C1100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>C1100-W</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>C2100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>D0100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>D1100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>D2100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>GE-100-VS</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design

## Motorix



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>M24</b>	MX-V4.0.4.19	MxPEG M-JPEG	1	2048x1536	1-way	-	-	Yes	-	
<b>T24</b>	MX-V4.0.4.19	MxPEG M-JPEG	1	2048x1536	1-way	7/3	-	Yes	-	

## Samsung



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>SNB-1000</b>	v1.07_110407	H.264 MPEG4 M-JPEG	1	640x480	1-way	1/1	-	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.									
<b>SNB-5000</b>	v1.33_110218	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
<b>SND-1010</b>	v1.07_110407	H.264 MPEG4 M-JPEG	1	640x480	-	1/1	-	Yes	-	

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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.										
<b>SND-5080/F</b>	v2.00_110608	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-		
<b>SNO-5080R</b>	v1.00_110514	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-		
<b>SNP-3120/V/ VH</b>	v1.24_110816	H.264 MPEG4 M-JPEG	1	704x480	1-way	2/2	Yes	Yes	-		
Note:	It takes a while to stop after users click stop patrol button.										
<b>SNP-3430H</b>	v1.10_110818	H.264 MPEG4 M-JPEG	1	704x480	1-way	8/4	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.										
<b>SNP-5200</b>		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-	Supported by design	
<b>SNP-5200H</b>	v1.02_110603	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-		
Note:	SNP-5200/5200H: 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:	SNP-5200/5200H: not support Area Zoom due to protocol limitation.										
Note:	SNP-5200/5200H: the speed selections of PTZ and focus in LiveView is not synchronized with camera web due to protocol limitation.										
<b>SNV-5080</b>		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	Supported by design	
<b>SNV-5080R</b>	v1.00_110421	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-		
Note:	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.										
<b>SPE-100</b>	v1.19_110317	H.264 MPEG4 M-JPEG	1	704x480	1-way	1/1	Yes	Yes	-		

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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.
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.

## Sunell



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
SN-IPC54/11 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
SN-IPC54/12 DN		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design
SN-IPC54/20 DN	1.6_build044011_061	H.264 M-JPEG	1	704x576	1-way	-	-	Yes	-	
SN-IPC54/50 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
SN-IPD54/11 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
SN-IPD54/12 DN		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design
SN-IPR54/50 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
SN-IPS54/60 DN/Z18		H.264 M-JPEG	1	704x576	1-way	-	-	Yes	-	Supported by design
SN-IPS54/60 DN/Z36		H.264 M-JPEG	1	704x576	1-way	-	-	Yes	-	Supported by design
SN-IPV54/11 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
SN-IPV54/12 DN		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design
SN-IPV54/50 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
SN-IPV54/50 DR		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design


Note:	Do not support I/O due to camera FW limitation.
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## UDP



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Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>IPE1100M</b>		H.264 MPEG4 M-JPEG	1	720x582	1-way	1/1	-	Yes	Yes	Supported by design
<b>IPE3100</b>		H.264 MPEG4 M-JPEG	1	768x576	1-way	1/1	-	Yes	Yes	Supported by design
<b>IPE3500</b>		H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
<b>IPE3500M</b>	1.6.7	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	
<b>IPE4100</b>	1.6.6	H.264 MPEG4 M-JPEG	1	720x576	1-way	4/2	Yes	Yes	Yes	
<b>IPE5500</b>		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design
<b>IPE6500</b>		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design
<b>IPE7500</b>		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design
<b>NVC1000</b>	1.6.7	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/2	Yes	Yes	Yes	
<b>NVC4000</b>	1.6.7	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	
<b>NVC4000-R12</b>		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported by design
<b>NVC4000-R40</b>		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported by design
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.									
<b>Vivotek</b>										
										
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>FE8171V</b>	0100d	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	
Note:	De-wrap function is not integrated in this version.									
<b>IP8133W</b>	0100c	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	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.									

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<b>IP8352</b>	0100g	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Supported by design
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.									
<b>IP8362</b>	0100d	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/0	-	Yes	Yes	Supported by design
VS8102	0202c2	H.264 MPEG4 M-JPEG	1	720x576	1-way	1/1	-	Yes	Yes	