

# Release Version 1.6.7 (2014/5/19)

#### Modules

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.6.7_0195_1655.bin
	NT-8040R/NT-8040RP	NT-8040R_1.6.7_0195_1658.bin
	Device pack	3.3
Application (Windows)	NUUO NuClient	V1.6.5(no update)
Application (Mac)	NUUO NuClient	V1.6.5(no update)

#### **Enhancement:**

- 1. Handle SSL heartbleed security issue.
- 2. Support IE 11

#### Known issue:

#### [Titan Server]

- 1. Sometimes when only add WAN IP for Sub server, it's possible that NuClient can't connect because of routing table issue.
- 2. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 3. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 4. Please use English or Thai OS when use Thai client.
- 5. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 6. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 1. Not support G.726 24K audio codec for LG camera LW352, LW9226, LG\_LDW2010.
- 2. Cross resolution exporting is not supported.



# Release Version 1.6.5 (2014/1)

#### Modules

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.6.5_0189_1701.bin
	NT-8040R/NT-8040RP	NT-8040R_1.6.5_0189_1704.bin
	Device pack	2.19
Application (Windows)	NUUO NuClient	Titan_NVR_1.6.5_AP_Windows.zip
Application (Mac)	NUUO NuClient	Titan_NVR_1.6.5_AP_MacOSX.zip

#### New features:

N/A

#### **Bug fixed:**

- 3. User needs to manually close UAC for offline license activation tool.
- 4. Offline license information export might be fail in the computer without internet connection.
- 5. When the network connection of is not stable, sometimes the NuClient cannot login and "Unknown error" message will popup.
- 6. Slow down the pan/ tilt speed of Sony SNC-ER580.
- 7. Under specific settings of event and event schedule, sometimes the action won't stop when event is stopped.
- 8. When using automatically switch stream profile and switch between single grid and multiple grid, and then doing digital PTZ, the client is possible to overlay disconnect icon on the video for seconds.
- 9. The web NuClient ActiveX plugin installation might be fail.
- 10. Sometimes NuClient will fail to open signature file after computer reboot.
- 11. When backup a lot of video in the same time, sometimes the backup will fail.
- 12. Axis M1054 audio might be distorted because of incorrect AAC audio decoder setting.
- 13. When export video through WAN environment on Mac OSX, sometimes the progress will run to 99% then fail.
- 14. When using Main-Sub server structure, cameras on Sub servers need to be manually disconnected and then connected in the first time to view live video.
- 15. [Camera] For ACTi KCM-7911 and KCM-3911 fisheye camera, when assigned fisheye mode on camera web page, and then connect to Titan, the lens changed and then NuClient will display improperly.

#### **Enhancement:**

1. Enhance Fisheye Dewarp algorithm to improve the dewarp quality.



#### Known issue:

#### [Titan Server]

- 1. When only add WAN IP for Sub server, it's possible that NuClient can't connect because of routing table issue.
- 2. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 3. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 4. Please use English or Thai OS when use Thai client.
- 5. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 6. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 1. Not support G.726 24K audio codec for LG camera LW352, LW9226, LG\_LDW2010.
- 2. Cross resolution exporting not supported.



# Release Version 1.6.2 (2013/08/29)

#### Modules

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.6.2_0180_0905.bin
	NT-8040R/NT-8040RP	NT-8040R_1.6.2_0180_0908.bin
	Device pack	2.16.0
Application (Windows)	NUUO NuClient	1.6.1
Application (Mac)	NUUO NuClient	1.6.1

#### New features:

N/A

#### **Bug fixed:**

- 2. When displaying second stream in H.264 format and connect the stream for multiple times, it is possible that the video might be black on live view (won't affect recording).
- 3. [FAE] When logging in NuClient, it sometimes popup unknown error.
- 4. [FAE] When the connection between Titan and license server is not stable, it might popup wrong error code.

#### **Known issue:**

#### [Titan Server]

- 7. Please manually close UAC for offline license activation tool.
- 8. When only add WAN IP for Sub server, it's possible that NuClient can't connect because of routing table issue.
- 9. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 10. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 11. Please use English or Thai OS when use Thai client.
- 12. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 13. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 3. Not support G.726 24K audio codec for LG camera LW352, LW9226, LG\_LDW2010.
- 4. Cross resolution exporting not supported.



# Release Version 1.5.1 (2013/01/21)

#### Modules

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.5.1_0155_1900.bin
	NT-8040R/NT-8040RP	NT-8040R_1.5.1_155_1903.bin
	Device pack	V2.8.2
Application (Windows)	NUUO NuClient	Titan_NVR_1.5.1_AP_Windows.zip
Application (Mac)	NUUO NuClient	Titan_NVR_1.5.1_AP_MacOSX.zip

#### New features:

- 1. Support Windows 8 (32 bit and 64 bit)
- 2. Support IE 10 (32 bit)
  - \* Must add Titan as IE 10 trusted server and enable compatibility view.

Microsoft reference: Trusted site

http://answers.microsoft.com/en-us/ie/forum/ie9-windows 7/how-do-i-add-a-site-to-my-tr usted-sites-list/98cc77c8-b364-e011-8dfc-68b599b31bf5

Microsoft reference: Enable compatibility view:

http://windows.microsoft.com/en-US/internet-explorer/use-compatibility-view#ie=ie-10

- 3. Support AXIS Joystick T8311
  - Supported function:

Туре	Function
	Go to monitor #
View and grid switching	Next view
	Previous view
	Next grid
	Previous grid
	Go to grid #
Screen layout switching	Switch to layout #
	Toggle single camera view
	Toggle full-screen
PTZ control	Digital / Optical switch
	Zoom in
	Zoom out
	Go to preset #
View editing	Delete content

#### **Bug fixed:**

#### [Titan Server fixed]

- 1. [FAE] When use local IP for SMTP server, it will fail to send test mail.
- 2. [FAE] When closing local display, the display interface will show unnecessary pictures.

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3. [Device Pack] Camera parameter can't be set from VIVOTEK 7000 and 8000 series.

#### [Titan Client fixed]: N/A

#### Known issue:

#### [Titan Server]

- 14. Please manually close UAC for offline license activation tool.
- 15. When only add WAN IP for Sub server, it's possible that NuClient can't connect because of routing table issue.
- 16. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 17. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 18. Please use English or Thai OS when use Thai client.
- 19. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 20. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 5. Not support G.726 24K audio codec for LG camera LW352, LW9226, LG\_LDW2010.
- 6. Cross resolution exporting not supported.
- 7. Patrol only support on LiveView, but on Playback UI, the icon not disable.
- 8. When event log DB is too big (over 50 MB), it is possible that playback time line can't be draw instantly.
- 9. When backup multiple channel, the backup might have several minute movement. For example, when choose backup 11:00:00 to 11:30:00, it might backup 11:01:00 to 11:31:00.
- 10. When doing continuous PTZ on the video, and some message popup, the PTZ status won't stop. Please reclick PTZ on the video to stop PTZ command.
- 11. When export ASF files, and the video is not continuous, the audio will not sync with the video. Please export continuous video when needing to export in ASF.
- 12. [Camera issue] (VIVOTEK IP7135): VIVOTEK IP7135 camera watermark status is not stable, so sometimes it will close/ open automatically. If the status is closed, and then switch client to fisheye mode, it can't switch properly. Please open watermark if you encounter this issue.
- 13. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 14. When the resolution is high, please export video as original avi or play with VLC. If exporting mpeg4 and H264 video to MOV files, sometimes the image will be broken.
- 15. If camera resolution is high, please play MOV video with VLC on MAC or Windows system, or please export as original AVI files. (VLC tested version: v2.0.1)



### NUUO version 1.6.7, Release date\_2014.5.19

- 16. When use Fisheye or Immervision mode, please only view/ playback one channel or use original mode. If use more than one camera, the camera frame rate will be low down and audio can't play smoothly. (Camera vendor SDK issue. The SDK only enable client handling one channel Fisheye/ Immervision mode.)
- 17. For E-Map picture, please not use too big resolution, or it can't be shown on View.
- 18. When save video to msAVI, please not save more than 4GB every file.
- 19. The OffLineTool only support English.



# Release Version 1.5.0 (2012/11/26)

#### Modules

Item		Version	
FW	NT-4040/NT-4040R	NT-4040_1.5.0_0149_1819.bin	
	NT-8040R/NT-8040RP	NT-8040R_1.5.0_0149_1829.bin	
	Device pack	V2.6.0	
Application (Windows)	NUUO NuClient	Titan_NVR_1.5.0_AP_Windows.zip	
Application (Mac)	NUUO NuClient	Titan_NVR_1.5.0_AP_MacOSX.zip	

#### New features:

- 4. Support Patrol
  - Start patrol after PTZ idle
  - Individual duration for every preset point
  - Privilege for controlling Patrol
- 5. Support NTP (Network Time Protocol).
- 6. Support Mac OS X Mountain Lion (v10.8).

#### Notice:

- 1. For Main-Sub server structure, please use same FW version for Main server and Sub servers.
- 2. To utilize patrol, both Titan server and NuClient need to be upgraded to v1.5.0
- 3. When NTP (Network Time Protocol) server updates Titan server time, server will restart to update the time.

#### **Enhancement:**

1. Extend server password maximum length to 20 digit.

#### **Bug fixed:**

#### [Titan Server fixed]

- 1. [FAE] Solve the issue that if Cameraparam.ini file on camera is destroyed, it might cause server crash.
- 2. [FAE] Solve the issue that when users change streaming server port, it will occasionally cause server restart.

#### [Titan Client fixed]

- 1. [FAE] Solve the issue that when users don't have backup privilege, they can still use instant playback export.
- 2. [FAE] Solve issue that when play recording over 24 hours, the time line will lost 5-10 min bar for cross day recording. (Only bar disappear, and user can still query recording files.)
- 3. [FAE] When auto logging in NuClient, the used server IP and account will be recorded repeatly.



4. [FAE] Solve the issue that export .mov file with Panasonic WV-SC385 on Mac Lion will fail.

#### Known issue:

#### [Titan Server]

- 21. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 22. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 23. Please use English or Thai OS when use Thai client.
- 24. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 25. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 20. Cross resolution exporting not supported.
- 21. Patrol only support on LiveView, but on Playback UI, the icon not disable.
- 22. When event log DB is too big (over 50 MB), it is possible that playback time line can't be draw instantly.
- 23. When backup multiple channel, the backup might have several minute movement. For example, when choose backup 11:00:00 to 11:30:00, it might backup 11:01:00 to 11:31:00.
- 24. When doing continuous PTZ on the video, and some message popup, the PTZ status won't stop. Please reclick PTZ on the video to stop PTZ command.
- 25. When export ASF files, and the video is not continuous, the audio will not sync with the video. Please export continuous video when needing to export in ASF.
- 26. [Camera issue] (VIVOTEK IP7135): VIVOTEK IP7135 camera watermark status is not stable, so sometimes it will close/ open automatically. If the status is closed, and then switch client to fisheye mode, it can't switch properly. Please open watermark if you encounter this issue.
- 27. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 28. When the resolution is high, please export video as original avi or play with VLC. If exporting mpeg4 and H264 video to MOV files, sometimes the image will be broken.
- 29. If camera resolution is high, please play MOV video with VLC on MAC or Windows system, or please export as original AVI files. (VLC tested version: v2.0.1)
- 30. When use Fisheye or Immervision mode, please only view/ playback one channel or use original mode. If use more than one camera, the camera frame rate will be low down and audio can't play smoothly. (Camera vendor SDK issue. The SDK only enable client handling one channel Fisheye/ Immervision mode.)
- 31. For E-Map picture, please not use too big resolution, or it can't be shown on View.
- 32. When save video to msAVI, please not save more than 4GB every file.
- 33. The OffLineTool only support English.



## Release Version 1.3.5 (2012/9/10)

Modules		
Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.3.5_0137_1004_20120910.bin
	NT-8040R/NT-8040RP	NT-8040R_1.3.5_0137_1007_20120910.bin
	Device pack	Titan Device Pack v2.4.2.
Application	NUUO NuClient	Titan_NVR_1.3.5_AP_Windows.zip
(Windows)		
Application	NUUO NuClient	Titan_NVR_1.3.5_AP_MAC.zip
(Mac)		

#### New features:

N/A

#### **Bug fixed:**

#### [Titan Server fixed]

- 3. Playback session can't be created when it continuously run over 25 days.
- 4. Server memory will increase gradually when operating for long time.

#### [Titan Client fixed]

- 1. When user change view and click camera in the same time, NuClient might be close.
- 2. NuClient might popup disconnect message even when it is connected with server.
- 3. Export .mov file with Sony SNC-DH160 on Mac Lion might fail issue.
- 4. When NuClient keep receiving event log for a long time, memory issue might result in AP shut down.
- 5. PTZ control in NuClient will lag around 1 second.

#### **Enhancement:**

#### [Titan Client]

1. Modify pre-record and post-record default value and minimum value to 5 sec.

#### Known issue:

#### [Titan Server]

26. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)



- 27. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 28. Please use English or Thai OS when use Thai client.
- 29. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 30. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 34. When users don't have backup privilege, they can still use instant playback export.
- 35. When event log DB is too big (over 50 MB), it is possible that playback time line can't be draw instantly.
- 36. When using "Auto backup", it is possible that playing the first backup channel will cause local playback AP crash. It's occasional, and not related to video. Upgrading NuClient and solve this version.
- 37. When backup multiple channel, the backup might have several minute movement. For example, when choose backup 11:00:00 to 11:30:00, it might backup 11:01:00 to 11:31:00.
- 38. When doing continuous PTZ on the video, and some message popup, the PTZ status won't stop. Please reclick PTZ on the video to stop PTZ command.
- 39. When export ASF files, and the video is not continuous, the audio will not sync with the video. Please export continuous video when needing to export in ASF.
- 40. [Camera issue] (VIVOTEK IP7135): VIVOTEK IP7135 camera watermark status is not stable, so sometimes it will close/ open automatically. If the status is closed, and then switch client to fisheye mode, it can't switch properly. Please open watermark if you encounter this issue.
- 41. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 42. When the resolution is high, please export video as original avi or play with VLC. If exporting mpeg4 and H264 video to MOV files, sometimes the image will be broken.
- 43. If camera resolution is high, please play MOV video with VLC on MAC or Windows system, or please export as original AVI files. (VLC tested version: v2.0.1)
- 44. When use Fisheye or Immervision mode, please only view/ playback one channel or use original mode. If use more than one camera, the camera frame rate will be low down and audio can't play smoothly. (Camera vendor SDK issue. The SDK only enable client handling one channel Fisheye/ Immervision mode.)
- 45. For E-Map picture, please not use too big resolution, or it can't be shown on View.
- 46. When save video to msAVI, please not save more than 4GB every file.
- 47. The OffLineTool only support English.



## Release Version 1.3.4 (2012/7/19)

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.3.4_0134_1908_20120719.bin
	NT-8040R/NT-8040RP	NT-8040R_1.3.4_0134_1911_20120719.bin
	Device pack	Titan device pack v2.3
Application	NUUO NuClient	Titan_NVR_1.3.4_AP_Windows.zip
(Windows)		
Application	NUUO NuClient	Titan_NVR_1.3.4_AP_MacOSX.zip
(Mac)		

#### New features:

#### [New Titan hardware support]

- 1. New Titan hardware series:
  - NT-8040R: 8 bay internal storage, Intel Core i5 CPU model
  - NT-8040RP: 8 bay internal storage, Intel Core i5 CPU model, with redundant power

#### **Bug fixed:**

#### [Titan Server]

- 1. When record on event and bitrate range is big, it might cause record stop.
- 2. After user who has "power user" privilege adding license, they can't view the newly added license.
- 3. Video record over 50 days can't playback properly.

#### [Titan Client]

- 1. Go to preset, and then PTZ, choose the same preset point won't move.
- 2. After setup the stream profile on LiveView, then goes to Playback and changed the view grid, and then back to Live View, all stream profile will back to Original.

#### Known issue:

#### [Titan Server]

- 1. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 2. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.
- 3. Please use English or Thai OS when use Thai client.
- 4. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.



5. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

- 1. When doing continuous PTZ on the video, and some message popup, the PTZ status won't stop. Please reclick PTZ on the video to stop PTZ command.
- 2. When export ASF files, and the video is not continuous, the audio will not sync with the video. Please export continuous video when needing to export in ASF.
- 3. [Camera issue] (VIVOTEK IP7135): VIVOTEK IP7135 camera watermark status is not stable, sometimes it will close/ open automatically. If the status is closed, and then switch client to fisheye mode, it can't switch properly. Please open watermark if you encounter this issue.
- 4. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 5. When the resolution is high, please export video as original avi or play with VLC. If exporting mpeg4 and H264 video to MOV files, sometimes the image will be broken.
- 6. If camera resolution is high, please play MOV video with VLC on MAC or Windows system, or please export as original AVI files. (VLC tested version: v2.0.1)
- 7. When use Fisheye or Immervision mode, please only view/ playback one channel or use original mode. If use more than one camera, the camera frame rate will be low down and audio can't play smoothly. (Camera vendor SDK issue. The SDK only enable client handling one channel Fisheye/ Immervision mode.)
- 8. For E-Map picture, please not use too big resolution, or it can't be shown on View.
- 9. When save video to msAVI, please not save more than 4GB every file.
- 10. The OffLineTool only support English.



# Release Version 1.3.3 (2012/6/11)

#### Modules

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.3.3.0128_1406_20120611.bin
	NT-8040R/NT-8040RP	NT-8040R_1.3.3_0128_1410_20120611.bin
	Device pack	V2.1
Application	NUUO NuClient	Titan_NVR_1.3.3_AP_Windows.zip
(Windows)		
Application	NUUO NuClient	Titan_NVR_1.3.3_AP_MacOSX.zip
(Mac)		

#### **Bug fixed:**

#### [Titan Server]

- 1. [FAE] Titan will automatically reboot sometimes under certain situation.
- 2. [FAE] When reboot Titan, the system will repair DB.
- 3. [FAE] Arecont\_2036: If camera parameter is too big, the video can't be playback and export.
- 4. [FAE] If user add VIVOTEK fisheye camera on v1.2, and then upgrade to v1.3, the camera status will show "Immervision" and the status is disable.
- 5. When user install wizard log in a brand new Titan server (no IP address), the system will popup time out message.
- 6. WAN backup might fail issue.

#### [Titan Client]

- 1. [FAE] On main-sub server structure, sometimes the sub server will disconnect.
- 2. [FAE] Continuous PTZ on video can't work.
- 3. [FAE] Arecont 5125IR: When setting H.264 and Half Resolution, the LiveView video will not play smoothly.
- 4. If camera GOP (group of picture) is too big, the video can't play smoothly.
- 5. When play recording for a long time, the time line won't update.
- 6. When digital zoom in/ out, the video OSD will disorder.
- 7. Daylight saving default value enhancement.

#### Known issue:

#### [Titan Server]

- 1. [Camera issue] CNB-ISMC1063N: Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 2. [Camera issue] VIVOTEK IP7135: Please lower camera GOP (group of picture) or close audio when camera GOP so big result to client define it as disconnect.



- 3. Please use English or Thai OS when use Thai client.
- 4. If downgrade FW from v1.3 to v1.2, then adds VIVOTEK fisheye camera: IP7135, and then upgrade, the camera status will be "Immervision", not VIVOTEK fisheye. To avoid this issue, please load to default when downgrade to v1.2.2.
- 5. [Limitation] Video frame size can't be greater than 1.75MB, or the system can't record.

#### [Titan Client]

- 1. When doing continuous PTZ on the video, and message interruptly popup, the PTZ status won't stop. Please reclick PTZ on the video to stop PTZ command.
- 2. When export ASF files, and the video is not continuous, the audio will not sync with the video. Please export continuous video when needing to export in ASF.
- 3. After setup the stream profile on LiveView, then goes to Playback and changed the view grid, and then back to Live View, all stream profile will back to Original.
- 4. [Camera issue] (VIVOTEK IP7135): VIVOTEK IP7135 camera watermark status is not stable, sometimes it will close/ open automatically. If the status is closed, and then switch client to fisheye mode, it can't switch properly. Please open watermark if you encounter this issue.
- 5. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 6. When the resolution is high, please export video as original avi or play with VLC. If exporting mpeg4 and H264 video to MOV files, sometimes the image will be broken.
- 7. If camera resolution is high, please play MOV video with VLC on MAC or Windows system, or please export as original AVI files. (VLC tested version: v2.0.1)
- 8. When use Fisheye or Immervision mode, please only view/ playback one channel or use original mode. If use more than one camera, the camera frame rate will be low down and audio can't play smoothly. (Camera vendor SDK issue. The SDK only enable client handling one channel Fisheye/ Immervision mode.)
- 9. For E-Map picture, please not use too big resolution, or it can't be shown on View.

10. When save video to msAVI, please not save more than 4GB every file.

11. The OffLineTool only support English.



# Release Version 1.3.0 (2012/5/8)

#### Modules

Item		Version
FW	NT-4040/NT-4040R	NT-4040_1.3.0_0117
	NT-8040R/NT-8040RP	NT-8040R_1.3.0_0117
	Camera Package	2.0.0
Application	NUUO NuClient	1.3.0.10
(Windows)		
Application	NUUO NuClient	1.3.0.10
(Mac)		

#### New features:

#### [New Titan hardware support] (Coming soon!)

- 3. New Titan hardware series:
  - NT-8040R: 8 bay internal storage, Intel Core i5 CPU model
  - NT-8040RP: 8 bay internal storage, Intel Core i5 CPU model, with redundant power

#### [Titan Server]

- 1. Support isolated device pack 2.0 and above version.\*
- 2. Daylight saving time enhancement.
- 3. Support license transfer.
- 4. Local display channel enhancement
  - NT-4040/NT-4040R: Totally up to 64CH with 4CH tour\*\*
  - NT-8040R/NT-8040RP: Totally up to 64CH with 16CH tour\*\*
- \* For camera support list, please refer to device pack release note.
- \*\* For local display performance detail, please refer to NUUO performance report.

- 1. Support VIVOTEK fisheye mode: (Set on Titan server)
  - Original
  - Rectilinear
  - Full-view panorama
  - Dual-view panorama (Only available on Ceiling and Ground)
- 2. Motion search enhancement
- 3. Server busy handling enhancement



#### [Others]

- 1. New language support: Slovenian, Thai, Turkish
  - Language support list: (21 languages)

Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Serbian, Spanish, Swedish, Slovenian, Thai, Turkish

- 2. New external storage model support:
  - DAS: Proware EP-D501-C3A
  - iSCSI: HP MSA2000 G2

#### **Enhancement:**

- 1. Enhance the record icon status to identify status easier.
- 2. License mechanism and message enhancement.

#### **Bug fixed:**

#### [Titan Server]

- 7. [Camera issue] (Arecont): When adding Arecont camera on 6<sup>th</sup> channel or above, it can't adjust parameter.
- 8. [Camera issue] (Panasonic\_WV-SC385): It not supports continuous Pan/Tilt.
- 9. [Camera issue] (Vivotek\_IP7361): If set more than 2 motion detection zone on camera web, motion detection can't be triggered.

#### [Titan Client]

- 8. [Camera issue] (Grandstream GXV3601): Fix the issue that audio codec G.726 is not support.
- 9. [Camera issue] (CNB IDC4050VR): Fix the issue that video not play smoothly.
- 10. Fix the issue that playback might not show timeline casually.
- 11. If camera has high bit rate, the liveview video can't be played smoothly.
- 12. Webclient export MOV files incorrectly.
- 13. If naming blank name for camera, this camera can't show on the grid.

Fixed: Now the camera name will be the IP address of the camera if not naming it, and it can be show on the grid.

- 14. The motion search zone will sometimes delay after drawing on the video.
- 15. If computer haven't install IE but install Firefox client directly, it can't switch multiple languages.



#### Known issue:

#### [Titan Server]

- 6. [Camera issue] (CNB-ISMC1063N): Audio Codec "G.711" voice not so clear, please use G.726 and PCM.(Camera issue, camera web also has same issue.)
- 7. [Camera issue] (VIVOTEK IP7135): Please lower camera GOP or close audio when camera GOP so big result to client define it as disconnect.
- 8. Please use English or Thai OS when use Thai client.

- 12. [Camera issue] (VIVOTEK IP7135): VIVOTEK IP7135 camera watermark status is not stable, sometimes it will close/ open automatically. If the status is closed, and then switch client to fisheye mode, it can't switch properly. Please open watermark if you encounter this issue.
- 13. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 14. When the resolution is high, please export video as original avi or play with VLC. If exporting mpeg4 and H264 video to MOV files, sometimes the image will be broken.
- 15. If camera resolution is high, please play MOV video with VLC on MAC or Windows system, or please export as original AVI files. (VLC tested version: v2.0.1)
- 16. When use Fisheye or Immervision mode, please only view/ playback one channel or use original mode. If use more than one camera, the camera frame rate will be low down and audio can't play smoothly. (Camera vendor SDK issue. The SDK only enable client handling one channel Fisheye/ Immervision mode.)
- 17. For E-Map picture, please not use too big resolution, or it can't be shown on View.
- 18. When save video to msAVI, please not save more than 4GB every file.
- 19. OffLineTool only support English.



# Release Version 1.2.2 (2012/3/27)

### Modules

Item		Version
FW	NVR	1.02.02_0104.0104
	Camera Package	1.02.02_0104.0104
Application	NUUO NuClient	1.2.2
(Windows)		
Application	NUUO NuClient	1.2.2
(Mac)		

# **Bug Fixed**

#### [Titan Server]

- 1. Fix (DigtalWatchDog-MPA20M) do not use MJPEG(1920\*1080,1440\*1080)
- 2. Fix (Santec\_SNC4302)not support Audio codec(G.726)
- 3. Fix (Samsung\_SNP3301)not support Audio
- 4. Fix (Arecont)do not suggest add after Ch6,and select Protocal(UDP) parameter
- 5. Fix (Santec\_SNC-4302)not support Quality select between H.264 and MJEPG
- 6. Fix (Sony\_SNC-EP520)do not support MJPEG(720\*480)
- 7. Fix (Zavio\_F7210) do not support Audio
- 8. Fix (GrandStream) do not support Audio codec(G.726)

#### [Titan Client]

- 1. Fix (Axis Q6034) slow PTZ response issue
- 2. Fix "Sub servers are in arbitrary order on Device List, and the top sub server on the list cannot be connected."

## Release Version 1.2.1 (2012/3/12)

### **Modules**

Item		Version
FW	NVR	01.02.0096.0096
	Camera Package	01.02.0096.0096

### **New Camera Supported**

- 1. ACTi: KCM5111, KCM5211, KCM5211E, KCM5311, KCM5311E, KCM7111, KCM7211
- 2. Arecont: AV1115, AV1125, AV2115, AV2125, AV3115, AV3125, AV5115, AV5125, AV10115,
- AV20185DN, AV20365DN
- 3. Axis: 231D+, 232D+
- 4. CORUM: CS-190-IO / CS-190-IP / CS-190-IW, CS-265-IO / CS-265-IP / CS-265-IW, CS-285-IP<sub>19 / 51</sub>



/ CS-285-IW, CS-325-IO / CS-325-IP, CS-385-IO / CS-385-IP / CS-390-IO / CS-390-IP, CS-410-IP / CS-410-IW / CS-415-IP / CS-415-IW

- 5. Digital Watch Dog: MPA20M
- Grandstream: GXV-3501, GXV-3504, GXV-3601, GXV-3601HD, GXV-3601LL, GXV-3611HD, GXV-3611LL, GXV-3615, GXV-3651FHD, GXV-3662HD
- 7. LevelOne: FCS-3031
- 8. Panasonic: WV-SC384, WV-SF132, WV-SF135, WV-SF342, WV-SF346, WV-SW152/M, WV-SW155/M, WV-SW352, WV-SW355
- 9. Probe: PMI-H2000
- 10. Samsung: SNB-7000, SND-7080, SNP-3301, SNP-3370, SNV-3120, SNV-5010, SNV-7080, SNV-7080R, SNZ-5200
- 11. SANTEC: SNC-3302, SNC-3342, SNC-4302, SNC-5312IR, SNC-6302, SNC-6312IRH, SNC-6332, SVS-3001
- 12. Sony: SNC-DH110T/B, SNC-DH110T/W, SNC-DH220, SNC-DH220T, SNC-EP520, SNC-EP521, SNC-EP550, SNC-EP580, SNC-ER520, SNC-ER521, SNC-ER550, SNC-ER580
- 13. **Vista**: VK2-1080VRD, VK2-2MPVRD, VK2-540VRD, VK2-600PTZ<sup>1</sup>, VK2-VGAVFD
- 14. Vivotek: FD8133V, FD8134V, FD8162, FD8361L, FD8362, FD8362E, IP8151P, IP8162, IP8162P, IP8331, MD7530, MD7560X, MD8562, PZ81x1, PZ81x1W, SD8362E, SD83x1E, SD83x2E, SD83x3E, VS8401
- 15. Zavio: D5110, D5111, F7110, F7115, F7210

#### **Known issue**

- 1. (DigtalWatchDog-MPA20M) do not use MJPEG(1920\*1080,1440\*1080)
- 2. (Santec\_SNC4302)not support Audio codec(G.726)
- 3. (Samsung\_SNP3301)not support Audio
- 4. (Arecont)do not suggest add after Ch6,and select Protocal(UDP) parameter
- 5. (Santec\_SNC-4302)not support Quality select between H.264 and MJEPG
- 6. (Sony\_SNC-EP520)do not support MJPEG(720\*480)
- 7. (Zavio\_F7210) do not support Audio
- 8. (GrandStream) do not support Audio codec(G.726)

### 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	Comorac	Low F	Profile	Minimur	n Profile
Brand/Series	Cameras	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	IGx10xx, ixP40xx ixP4000xx	CIF~SXGA	0.1~10	CIF~SXGA	0.1~10
CNB	INS2000/IBxxxx/Xpeed IP	QVGA~D1	0.1~10	QVGA~D1	0.1~10
CNB	IGx2050F, IDC4050xx,	QVGA~D1	0.1~10	QVGA~D1	0.1~10

<sup>1</sup> Preset

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XC8050IR, VC5050xx,IVP5055xx, DP5055xx,IXP3055VR HF3211P	CIF	1~3	<u>CIE</u>	
HF3211P		1~3	CIE	
HF3211P	CIF		CIF	0.1~1.5
HF3211P		5	CIF	2
	D1~1080p	0.1~10	D1~1080p	0.1~10
	CIF~1080p	0.1~10	CIF~1080p	0.1~10
	QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
GLS-1701/IR	QCIF~Full D1	0.1~10	QCIF~Full D1	0.1~10
GLS-2104	QCIF~Half D1	0.1~10	QCIF~Half D1	0.1~10
GLS-2301H	CIF~Full D1	0.1~10	CIF~Full D1	0.1~10
NLC-1401, NLD-1401, NLS-1401	CIF	5	CIF	2
NXC-1301M, NXC-1302M, NXC-1401M, NXC-1402M, NXD-1301M, NXD-1302M, NXD-1401M, NXD-1402M	CIF	15	CIF	5
EQN2200, EQN220	QCIF~UXGA	0.1~6	QCIF~UXGA	0.1~6
	QVGA	5	QVGA	1.5
	CIF	1~3	CIF	0.1~1.5
	CIF	1~3	CIF	0.1~0.5
GXV-3501, GXV-3504, GXV-3601, GXV-3601LL, GXV-3611LL, GXV-3615,	176x112~35 2x288	0.1~5	176x112~35 2x288	0.1~5
GXV-3662HD	320x240	0.1~10	320x240	0.1~10
GXV-3601HD, GXV-3611HD	320x240	0.1~5	320x240	0.1~5
GXV-3651FHD	320x240	0.1~10	320x240	0.1~10
	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
	640x368	15	640x368	5
WCS-0030, FCS-0030, FCS-0031, FCS-1121, FCS-5041, FCS-6010	CIF	10	CIF	4
-CS-3061	OCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
FCS-1131, FCS-1141, FCS-3071, FCS-3081, FCS-4041, FCS-5051, FCS-5061	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
CS-0040, WCS-0040	CIF	10	CIF	3
-CS-1151	CIF	3	QCIF	3
	CIF	3	QCIF	2
	CIF	10	CIF	4
	CIF	4	QCIF	2
	VGA	1	VGA	0.5
	CIF	2	CIF	1
	CIE~D1	0.1~10	CIE~D1	0.1~10
				0.1~10
SNB-1000, SNB-5000.				2 21/51
	SLS-2104         SLS-2301H         JLC-1401, NLD-1401,         JLS-1401         JXC-1302M,         JXC-1401M,         JXC-1402M,         JXD-1301M,         JXD-1302M,         JXD-1401M,         JXD-1401M,         JXD-1402M,         QN2200, EQN220         SXV-3501, GXV-3504,         GXV-3601, GXV-3601LL,         GXV-3601, GXV-3601LL,         GXV-3611LL, GXV-3615,         GXV-3601HD,         GXV-3601HD,         GXV-3651FHD         VCS-0030, FCS-0030,         CS-0031, FCS-1121,         CS-5041, FCS-6010         CS-3061         CS-1131, FCS-1141,         CS-3071, FCS-3081,         CS-4041, FCS-5051,         CS-5061         CS-0040, WCS-0040	SLS-1701/IR         QCIF~Full D1           SLS-2104         QCIF~Half           D1         CIF~Full D1           SLS-2301H         CIF~Full D1           ILC-1401, NLD-1401,         CIF           ILS-1401         CIF           IXC-1302M,         CIF           IXC-1401M,         CIF           IXC-1402M,         CIF           IXC-1402M,         QVGA           IXC-1402M,         QVGA           QN2200, EQN220         QCIF~UXGA           QVZA         QVGA           CIF         CIF           SXV-3501, GXV-3504,         176x112~35           XV-3601, GXV-3601LL,         SXV-3601AD,           SXV-3601HD,         320x240           GXV-3601HD,         320x240           SXV-3651FHD         320x240           GXV-3651FHD         320x240           GXV-3651FHD         320x240           GXV-3601HD,         S20x240           GXV-3601HD,         GXV-368           VCS-0030, FCS-0030,         CIF           SSV-3611HD         QCIF~FullHD           640x368         QCIF~FullHD           CS-3061         QCIF~FullHD           CS-3071, FCS-3081,         CIF	SLS-1701/IR         QCIF~Full D1         0.1~10           SLS-2104         QCIF~Half D1         0.1~10           SLS-2301H         CIF~Full D1         0.1~10           LC-1401, NLD-1401, LLC-1401, NLD-1401, LLC-1302M, IXC-1302M, IXC-1402M, IXC-1402M, IXD-1302M, IXD-1302M, IXD-1302M, IXD-1402M         CIF         15           QVISCA         0.1~6         QVGA         5           CIF         1~3         CIF         17           QV2200, EQN220         QCIF~UXGA         0.1~6         0.1~5           QV3200, EQN220         QCIF~UXGA         0.1~5         0.1~5           XV-3601, GXV-3504, IXV-3601LL, GXV-3601LL, XV-3611LD         176x112~35 2x288         0.1~5         0.1~5           XV-3662HD         320x240         0.1~10         0.1~10         0.1~10           XV-3651FHD         320x240         0.1~10         0.1~10           XV-3651FHD         320x240         0.1~10         0.1~10           XV-3651FHD         320x240         0.1~10         0.1~10           XV-3651FHD         320x240         0.1~10         0.1~10           XV-3651FHD         QCIF~FullHD         0.1~10         0.1~10           XV-36040, FCS-1030, CS-0031, FCS-1121, CS-3031, FCS-1141, CS-3041, FCS-5051, CS-3041, FCS-5051, CS-3041, FCS-5051, CS-30441, FCS-5051, CS-30441, FC	ILS-1701/IR         QCIF~Full D1         0.1~10         QCIF~Full D1           ILS-2104         QCIF~Half         0.1~10         QCIF~Half         D1           ILS-2301H         CIF~Full D1         0.1~10         CIF~Full D1           ILS-1401, NLD-1401, ILS-1401         CIF         5         CIF           ILS-1302M, IXC-1302M, IXC-1302M, IXD-1302M, IXD-1302M, IXD-1401M, IXD-1401M, IXD-1401M, IXD-1402M         CIF         15         CIF           QV2200, FQN220         QCIF~UXGA         0.1~6         QCIF~UXGA           XV-3601LD, SV-3601LD, SV-3601LD, SV-3601HD         320x240         0.1~10         320x240           XV-3651FHD         320x240         0.1~10         320x240           XV-3651FHD         320x240         0.1~10         QCIF~FullHD           SV-3651FHD         320x240         0.1~10         QCIF~FullHD           SV-3651FHD         320x240         0.1~10         QCIF~FullHD           CIF~FullH

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	SND-1010, SND-5080/F, SNO-5080R,				
	SNP-3120/V/VH,				
	SNP-3430H, SNP-5200,				
	SNP-5200H, SNV-5080,				
-	SNV-5080R, SPE-100	015			
Samsung	SNP-3301, SNP-3370	CIF	0.1~10	CIF	0.1~10
Samsung	SNV-3120, SNB-7000, SND-7080, SNV-5010, SNZ-5200	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
Samsung	SNV-7080, SNV-7080R	CIF~SXGA	0.1~10	CIF~SXGA	0.1~10
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		VGA~D1	1~3	VGA~D1	0.3~0.8
server)					
Sanyo HD1, HD3,	HD1: VCC-HD2500,	CIF~VGA	3	CIF~VGA	1
HD4	VDC-HD3500				
	HD3: VCC-HD5400, VCC-HD5600				
	HD4: VCC-HD4600				
Sanyo HD2	HD2: VCC-HD2100,	CIF~4 Mega	0.1~3	CIF~4 Mega	0.1~3
	VCC-HD2300,				0.2 0
	VDC-HD3100,				
Sony	VDC-HD3300	QCIF~Full	0.1~10	QCIF~Full	0.1~10
Sony		-	0.1~10	-	0.1~10
CtarDat		HD	2	HD	1
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
Videosec	IBF-211, IDA-210, IP-206M, IS-240	QVGA	5	QQVGA	5
Videosec	ICS-13, ICS-20F, ID-20	CIF~Full HD	0.1 ~ 10	CIF~Full HD	0.1 ~ 10
Vista Model C	VK2-1080VRD, VK2-2MPVRD	QVGA~4CIF	5~15	QVGA~4CIF	2~15
Vista Model A	VK2-540VRD, VK2-600PTZ, VK2-VGAVFD	CIF	5	CIF	2
Vivotek		CIF	5	CIF	2
7000v2/8000					
(General)					
Vivotek		CIF	3	QCIF	3
7000v2/8000					
(2 Mega)					
Vivotek 8000		QCIF~D1	0.1~10	QCIF~D1	0.1~10
(VS series)					
Vivotek 8000	IP8330, IP8332, IP8352	CIF	3	CIF	1
Vivotek 8000	IP8362	CIF	5	CIF	3
Vivotek	FD8162, FD8362,	CIF	8	QCIF	6
	FD8362E, IP8162, MD8562		-		
Vivotek	SD8362E	CIF	6	QCIF	6
Vivotek	IP8331, MD7530, MD7560X, PZ81x1, PZ81x1W, SD8313E, SD8312E, SD8311E	CIF	3	QCIF	3
Zavio		CIF	5	QCIF	3
Zavio (Mega)		CIF	7	CIF	2
Zavio (2 Mega)	F7210	640x480	4	640x480	1.3
	1		•		22 / 51



#### New Camera Support

Con	necting Vision										
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
KCM5111	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	-	Yes	-	Yes	
Note:	On-edge mot	tion: H.264	and MPE	G4.							
KCM5211	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	Yes	Yes	-	Yes	
Note:	On-edge mot	tion: H.264	and MPE	G4.							
KCM5211E	Refer to KCM5211E	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	Yes	Yes	-	Yes	Supported by design
Note:	On-edge mot	tion: H.264	and MPE	G4.							
KCM5311	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	2/2	Yes	Yes	-	Yes	
Note:	On-edge mot	tion: H.264	and MPE	G4.							
KCM5311E	Refer to KCM5311E	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	2/2	Yes	Yes	-	Yes	Supported by design
Note:	On-edge mot	tion: H.264	and MPE	G4.							
KCM7111	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	-	Yes	-	Yes	
Note:	On-edge mot	tion: H.264	and MPE	G4.							
KCM7211	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	Yes	Yes	-	Yes	
Note:	On-edge mot	tion: H.264	and MPE	G4.							
Arecont											
megipixel tech beyond ima								0		Camera	
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Search Tool	Remarks
AV1115	65201	H.264 M-JPEG	1	1280x1024	-	1/1	-	Yes	-	Yes	



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	Defer to	11.264										Cumported by
AV1125	Refer to AV1115	H.264 M-JPEG	1	128	0x1024	-	1/1	-	Yes	-		Supported by design
AV2115	Refer to AV2125	H.264 M-JPEG	1	192	0x1056	-	1/1	-	Yes	-		Supported by design
AV2125	65201	H.264 M-JPEG	1	192	0x1056	-	1/1	-	Yes	-	Yes	
AV3115	65201	H.264 M-JPEG	1	204	8x1536	-	1/1	-	Yes	-	Yes	
AV3125	Refer to AV3115	H.264 M-JPEG	1	204	8x1536	-	1/1	-	Yes	-		Supported by design
AV5115	65201	H.264 M-JPEG	1	256	Dx1600	-	1/1	-	Yes	-	Yes	
AV5125	65201	H.264 M-JPEG	1	256	0x1600	-	1/1	-	Yes	-	Yes	
AV10115	65201	H.264 M-JPEG	1	364	8x2752	-	1/1	-	Yes	-	Yes	
AV20185DN	65170	H.264 M-JPEG	4	256	0x1920	-	1/1	-	Yes	-	Yes	
AV20365DN	Refer to AV20185DN	H.264 M-JPEG	4	256	0x1920	-	1/1	-	Yes	-		Supported by design
Note:	On-edge mot	ion: turn of	f the "er	nable e	extended	on mot	ion detec	tion" f	unction	on camera v	veb.	
Note:	For multiple- protocols on										es if confi <u>c</u>	juring different
AXIS	e• 🔶											
COMMUNI	CATIONS											
Device Name	Tested Firmware	Video Format			Max Resolut	ion	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
							Audio -	<b>I/O</b> Ch 4/4	<b>PTZ</b> Yes		<b>UPnP</b> Yes	Supported by
231D+		Format		h	Resolut	:576		Ch		Motion		Supported by
231D+		Format MPEG4 M-JPEG MPEG4		<b>h</b> 1	Resolut 704×	:576	-	<b>Ch</b> 4/4	Yes	Motion Yes	Yes	Supported by design Supported by
231D+ 232D+ CORUM CORU	Firmware	Format MPEG4 M-JPEG MPEG4		<b>h</b> 1	Resolut 704×	:576	-	<b>Ch</b> 4/4	Yes	Motion Yes	Yes	Supported by design Supported by
CORU	Firmware JM CCTV	Format MPEG4 M-JPEG MPEG4		h 1 1	Resolut 704×	:576	-	<b>Ch</b> 4/4	Yes	Motion Yes	Yes	Supported by design Supported by design
231D+ 232D+ CORUM CORUM	Firmware JM CCTV Tested	Format MPEG4 M-JPEG MPEG4 M-JPEG		h 1 1	<b>Resolut</b> 704× 704× <b>Max</b>	:576 :576	-	Ch 4/4 4/4 I/O	Yes	Motion Yes Yes On-Edge	Yes	Supported by design Supported by design

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					1		1	-	-	1	1		
CS-285-IP / CS-285-IW		H.264 M-JPEG		1	1600x1	.200	1-way	1/1	-	Yes		-	Supported by design
CS-325-IO / CS-325-IP		H.264 M-JPEG		1	1600x1	.200	1-way	1/1	-	Yes		-	Supported by design
CS-385-IO / CS-385-IP / CS-390-IO / CS-390-IP		H.264 M-JPEG		1	1600x1	.200	1-way	1/1	-	Yes		-	Supported by design
CS-410-IP / CS-410-IW / CS-415-IP / CS-415-IW		H.264 M-JPEG		1	1280x1	.024	1-way	-	-	Yes		-	Supported by design
-WA	atch Do GITAL ICHDOG						_				_		
Device Name	Tested Firmware	Video Format	Video Ch	-	olution	udio	I/O Ch	PTZ	On-Edg Motion	e UPnP	-	VIF arch	Remarks
MPA20M	1.0.0.0	H.264 MPEG4 M-JPEG	1	192	0x1080	-	-	-	-	-	Y	(es	
			rotocol	v1.02									
Note:	Implement v	νιαι Οιννις μ	10100001										
Note:					l, ONVIF se	earch v	works on	ly as c	ameras l	keep defau	lt adı	ministra	ator name and
Note: Note:	Due to the li password. There are tw network, you network, you wrong url.	mitation of ( o port settin J can use thi	DNVIF p gs on ca s web p	orotoco amera port as	web, web p configuring	port an g port	d service on NVR.	e port. While	When N if NVR a	/R and can nd camera	nera a are l	are loca located	ated in the same
Note: Note: Grandstr	Due to the li password. There are tw network, you network, you wrong url.	mitation of ( o port settin J can use thi	DNVIF p gs on ca s web p	orotoco amera port as	web, web p configuring	port an g port	d service on NVR.	e port. While	When N if NVR a	/R and can nd camera	nera a are l	are loca located	ated in the same in different
Note: Note: Grandstr	Due to the li password. There are tw network, you network, you wrong url. eam	mitation of ( o port settin J can use thi	DNVIF p gs on ca s web p se servi	orotoco amera port as	web, web p configuring	port an g port atter, "	d service on NVR. go to we	e port. While	When N if NVR a	/R and can nd camera	nera a are l ig pag	are loca located	ated in the same in different
Note: Note: Grandstre	Due to the li password. There are tw network, you wrong url. eam Stream	mitation of ( o port settin u can use thi u must choose Video	DNVIF p gs on ca s web p se servi	orotoco amera port as ice port	web, web p configuring t. For the la	port an g port atter, " on	d service on NVR. go to we	port. While b" fun	When N' if NVR a ction on	/R and cam nd camera NVR settin <b>On-Edge</b>	nera a are l ig pag	are loca located ge migl	ated in the same in different ht direct to the
Note: <b>Grandstr</b> <b>Grandstr</b> <b>Device Name</b>	Due to the li password. There are tw network, you wrong url. eam Stream	mitation of 0 o port settin u can use thi u must choose <b>Video</b> Format H264	DNVIF p gs on ca s web p se servio	orotoco amera port as ice port /ideo Ch	Max Resolutio	port an g port atter, " on	d service on NVR. go to we Audio	port. While b" fun I/O Ch	When N <sup>V</sup> if NVR a ction on	/R and cam nd camera NVR settin On-Edge Motion	nera a are l ig pag	are loca located ge migl	ated in the same in different ht direct to the
Note: Grandstr Grandstr Device Name GXV-3501	Due to the li password. There are tw network, you wrong url. eam Stream Tested Firmware	video Format H264 H264 H264	DNVIF p gs on ca s web p se servio	protoco amera port as ice port /ideo Ch	Max Resolutio	port an g port atter, " on 180	d service on NVR. go to we <b>Audio</b> 1-way	i port. While b" fun I/O Ch 1/1	When N <sup>V</sup> if NVR a ction on PTZ Yes	/R and cam nd camera NVR settin On-Edge Motion Yes	nera a are l ig pag	are loca located ge migl UPnP	ated in the same in different ht direct to the
Note: Note: Grandstro Grandstro Oevice Name GXV-3501 GXV-3504	Due to the li password. There are tw network, you wrong url. eam Stream D.0.4.25 0.0.4.25	video Format H264 H264 H264 H264 H264 H264	DNVIF p gs on ca s web p se serviv	vorotoco amera port as ice port /ideo Ch 1 4	Max Resolutio	port an g port atter, " bn 180 180	d service on NVR. go to we Audio 1-way 1-way	i port. While b" fun I/O Ch 1/1 4/4	When N <sup>V</sup> if NVR a ction on PTZ Yes Yes	/R and cam nd camera NVR settin On-Edge Motion Yes Yes	nera a are l ig pag	upnP	ated in the same in different ht direct to the
Note: Grandstr	Due to the li password. There are tw network, you wrong url. eam Stream 0.0.4.25 0.0.4.25 0.0.4.25	mitation of ( o port settin a can use thi a must choose Video Format H264 M-JPEG H264 M-JPEG H264 M-JPEG	DNVIF p gs on ca s web p se serviv	vorotoco amera port as ice port /ideo Ch 1 4 1	Max Resolutio 704x4 704x4	port an g port atter, " bn 480 480 480 480	d service on NVR. go to we Audio 1-way 1-way 1-way	2 port. While b" fun I/O Ch 1/1 4/4 1/1	When N <sup>V</sup> if NVR a ction on PTZ Yes Yes Yes	/R and cam nd camera NVR settin On-Edge Motion Yes Yes Yes	nera a are l ig pag	UPnP	ated in the same in different ht direct to the
Note: Note: Grandstr Gr	Due to the li password. There are tw network, you wrong url. Eam Tested Firmware 0.0.4.25 0.0.4.25 0.0.4.25 0.0.4.25 0.0.4.25	mitation of C o port settin a can use thi a must choose Video Format H264 M-JPEG H264 M-JPEG H264 M-JPEG H264 M-JPEG	DNVIF p gs on ca s web p se serviv	protoco amera port as ice port /ideo Ch 1 4 1 1 1 1	web, web p configuring t. For the la <b>Max</b> <b>Resolutio</b> 704x4 704x4 1600x1 720x5	port an g port atter, " on 480 480 480 480 576	Audio 1-way 1-way 1-way 1-way 1-way 1-way	E port. While b" fun 1/1 1/1 1/1 1/1 1/1	When Ny if NVR a ction on PTZ Yes Yes Yes Yes	VR and cam nd camera NVR settin On-Edge Motion Yes Yes Yes Yes Yes	nera a are l g pa	are loca located ge migl UPnP - - - - -	ated in the same in different ht direct to the



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		T								
GXV-3611LL	1.0.4.31	H264 M-JPEG	1	720x576	1-way	1/1	Yes	Yes	-	
Note:	Video cannot b might be came		under the	e following setting	gs: H.264	codec	, 320x2	40, fps=1 and	bit rate	>= 1024. This
GXV-3615	0.0.4.25	H264 M-JPEG	1	720x576	1-way	-	Yes	Yes	-	
Note:	Video cannot b might be came		under the	e following setting	gs: H.264	codec	, 320x2	40, fps=1 and	bit rate	>= 1024. This
GXV-3651FHD	0.0.1.51	H264 M-JPEG	1	2560x1920	1-way	1/1	Yes	Yes	-	
Note:	Not support 5	megapixel wi	th M-JPEC	6 codec currently	<b>'</b> .					
Note:	Video cannot b issue.	e connected (	under the	following setting	s: H.264	codec,	2560x1	.920, fps < 5. T	This migh	t be camera FV
Note:	Video disconne light. This mig			llowing settings:	H.264 co	odec, m	negapix	el, fps >= 2, h	ighest bi	t rate with dim
GXV-3662HD	0.0.1.50	H264 M-JPEG	1	1280x960	1-way	1/1	-	Yes	-	
Note:	All cameras: a	udio noise on	G.726 co	odec.						
Note:		udio is not pla	iying smo	othly as users wa	atch live v	ideos o	n both I	NVR side and c	amera si	de, which migh
Note: Note: LevelOne	All cameras: a be camera FW	udio is not pla	iying smo	othly as users wa	atch live v	ideos o	n both I	NVR side and c	amera si	de, which migh
Note: LevelOne	All cameras: a be camera FW	udio is not pla	iying smo	othly as users wa		ideos o I/O Ch	n both	NVR side and c On-Edge Motion	amera si UPnP	de, which migh
Note: LevelOne	All cameras: a be camera FW	udio is not pla bug or perfo	ying smo rmance co Video	othly as users wa		1/0		On-Edge		
Note: LevelOne	All cameras: a be camera FW	Video Format MPEG4 M-JPEG e is 15 even co	Video Ch	Max Resolution 640x480	Audio 1-way der 320x2	<b>I/O</b> Ch 1/1	PTZ	On-Edge Motion -	<b>UPnP</b> Yes	Remarks
Note: LevelOne Device Name FCS-3031 Note:	All cameras: a be camera FW	Video Format MPEG4 M-JPEG e is 15 even co	Video Ch	Max Resolution 640x480	Audio 1-way der 320x2	<b>I/O</b> Ch 1/1	PTZ	On-Edge Motion -	<b>UPnP</b> Yes	Remarks
Note: LevelOne Fleve Device Name FCS-3031 Note: Panasonio Pana	All cameras: a be camera FW	Video Format MPEG4 M-JPEG e is 15 even co	Video Ch	Max Resolution 640x480	Audio 1-way der 320x2	<b>I/O</b> Ch 1/1	PTZ	On-Edge Motion -	<b>UPnP</b> Yes	Remarks
Note: LevelOne Fileve Device Name FCS-3031 Note: Panasonio Pana	All cameras: a be camera FW Cone <sup>•</sup> Tested Firmware V1.0.04 The frame rate issue. Not support or Sonic	Video Format MPEG4 M-JPEG e is 15 even co	Video Ch	Max Resolution 640x480	Audio 1-way der 320x2 issue.	<b>I/O</b> Ch 1/1	PTZ	On-Edge Motion -	<b>UPnP</b> Yes	Remarks
Note: LevelOne Device Name FCS-3031 Note: Panasonic Pana	All cameras: a be camera FW Cone' Tested Firmware V1.0.04 The frame rate issue. Not support or Sonic or life	Video Format MPEG4 M-JPEG is 15 even co n-edge motion	Video Video Video Video Video	Max Resolution 640x480 frame rate 1 uno y due to camera	Audio 1-way der 320x2 issue.	I/O Ch 1/1 240 and	PTZ - 1 160x11	On-Edge Motion - 20 resolution, v	<b>UPnP</b> Yes which be	Remarks
Note: LevelOne Device Name FCS-3031 Note: Panasonic Panasonic Device Name	All cameras: a be camera FW Cone' Tested Firmware V1.0.04 The frame rate issue. Not support or Sonic Tested Firmware Refer to	Video Format MPEG4 M-JPEG is 15 even con- edge motion Video Format H.264 MPEG4	Video Ch 1 Video Ch Video Ch	Max Resolution frame rate 1 uno y due to camera	Audio 1-way der 320x2 issue. Audio	I/O Ch 240 and I/O Ch	PTZ - 160x1	On-Edge Motion - 20 resolution, v	UPnP Yes which be	Remarks

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					1		1	1	1		-	
WV-SF342	Refer to WV-SF332	H.264 MPEG4 M-JPEG		1	1280	x960	1-way	-	Yes	Yes	-	Supported by design
WV-SF346	Refer to WV-SF336	H.264 MPEG4 M-JPEG		1	1280	x960	1-way	-	Yes	Yes	-	Supported by design
WV-SW152/M	Refer to WV-SW155/	H.264 M M-JPEG		1	1280	x960	1-way	-	-	Yes	-	Supported by design
WV-SW155/M	1.03	H.264 M-JPEG		1	1280	x960	1-way	-	-	Yes	-	
WV-SW352	Refer to WV-SW352	H.264 MPEG4 M-JPEG		1	1280	x960	1-way	-	-	Yes	-	Supported by design
WV-SW355	1.41	H.264 MPEG4 M-JPEG		1	1280	x960	1-way	-	-	Yes	-	
Probe												
PRO	BE											
Device Name		Video Format	Video Ch		olution	Audio	I/O Ch	PTZ	On-Edg Motion	e UPnP	ONVIF Search	Remarks
	v1.0.0_2012 0106	H264 M-JPEG	1		0x1080 080i)	1-way	-	Yes	_	Yes	Yes	
	Implement wi	th ONVIF p	rotocol	v1.02.								
Note:						search v	works onl	y as c	ameras l	keep defau	lt adminis	rator name and
Note: Note:	Due to the lin password.	nitation of ( a FW issue,	DNVIF p	orotoco	I, ONVIF							rator name and y, users might ge
Note: Note: Note:	Due to the lim password. Due to camera error message	nitation of ( a FW issue,	DNVIF p	orotoco	I, ONVIF							
Note: Note: Note: Samsung	Due to the lim password. Due to camera error message	nitation of ( a FW issue,	DNVIF p	orotoco	I, ONVIF							
Note: Note: Note: <b>Samsung</b>	Due to the lim password. Due to camera error message	a FW issue, on NVR si	DNVIF p users h ide.	protoco have to	l, ONVIF go to car		o for conf	igurin		on to 1080	i. Currentl	
Note: Note: Samsung	Due to the lim password. Due to camera error message	a FW issue, on NVR si	DNVIF p users h ide.	protoco have to	I, ONVIF	nera web	o for conf				i. Currentl	y, users might ge
Note: Note: Samsung SAMSU	Due to the lim password. Due to camera error message	FW issue, FW issue, on NVR si	DNVIF p users h ide.	nave to	l, ONVIF go to car Max Resolut	nera web	o for conf	igurin I/O	g resoluti	on to 1080 On-Edge	i. Currentl	y, users might ge
Note: Note: Samsung SAMSU Device Name SNB-7000	Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to	Video Format H.264 H.264	DNVIF p users h ide.	protoco nave to /ideo Ch	I, ONVIF go to car Max Resolut 2048	nera web	o for conf	igurin I/O Ch	g resoluti	on to 1080 On-Edge Motion	i. Currentl	y, users might ge          y, users might ge         P         Remarks         Supported by
Note: Note: Samsung SAMSU Device Name SNB-7000 SND-7080	Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to SNB-7080	Video Format H.264 M-JPEG H.264 H.264 H.264	DNVIF p users h ide.	/ideo 1	I, ONVIF go to car Max Resolut 2048; 2048;	nera web tion x1536	Audio	I/O Ch	g resoluti	On-Edge Motion Yes	i. Currentl	y, users might ge          y, users might ge         P         Remarks         Supported by
Note: Note: Samsung SAMSU Device Name SNB-7000 SND-7080 SNP-3301	Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to SNB-7080 v1.10_1108	Video Format H.264 M-JPEG H.264 M-JPEG H.264 M-JPEG H.264 H.264 M-JPEG H.264 H.264	DNVIF p users h ide.	rotoco have to /ideo Ch 1	I, ONVIF go to car Resolut 2048) 2048) 704)	nera web tion x1536 x1536	Audio 1-way 1-way	iguring <b>I/O</b> <b>Ch</b> 1/1 1/1	g resoluti	On-Edge Motion Yes Yes	i. Currentl	y, users might ge          y, users might ge         P         Remarks         Supported by
Note: Note: Note: <b>Samsung</b>	Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to SNB-7080 v1.10_1108 v1.21_1103	Video Format H.264 M-JPEG H.264 M-JPEG H.264 M-JPEG H.264 M-JPEG H.264 M-JPEG H.264 M-JPEG	DNVIF p users h ide.	2 ch 2 ch	I, ONVIF go to car Resolut 2048) 2048) 704) 704)	nera web tion x1536 x1536 x480 x480	Audio 1-way 1-way 1-way 1-way 1-way	<b>I/O</b> <b>Ch</b> 1/1 1/1 4/2 4/2	g resoluti PTZ - Yes Yes	On-Edge Motion Yes Yes Yes	i. Currentl	y, users might ge          y, users might ge         P         Remarks         Supported by



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SNC-DH220	1.50.00	H.264 MPEG4 M-JPEG	1	192	0x1440	1-way	1/1	Yes	Yes	-	Yes	
SNC-DH110T /B / SNC-DH110T /W	SNC-DH110	H.264 MPEG4 M-JPEG H.264	1	128	80x960	-	-	-	Yes	-		Supported by design
Device Name		Video Format	Video Ch	Max Reso	olution	Audio	I/O Ch	PTZ	On-Edge Motion	e UPnP	Camera Search Tool	Remarks
Sony SO	NY.											
SVS-3001		H.264 M-JPEG		1	720>	x480	1-way	1/1	Yes	Yes	Yes	Supported by design
SNC-6332		H.264 M-JPEG		1	1600>	×1200	1-way	1/1	-	Yes	Yes	Supported by design
SNC-6312IRH	Refer to SNC-4302	H.264 M-JPEG		1	1920>	×1080	1-way	1/1	-	Yes	Yes	Supported by design
SNC-6302	Refer to SNC-4302	H.264 M-JPEG		1	1920>	×1080	1-way	1/1	-	Yes	Yes	Supported by design
SNC-5312IR	Refer to SNC-4302	H.264 M-JPEG		1	1920>	×1080	1-way	1/1	-	Yes	Yes	Supported by design
SNC-4302	1.0.0.9	H.264 M-JPEG		1	1920>	×1080	1-way	1/1	-	Yes	Yes	
SNC-3342		H.264 M-JPEG		1	1600>	×1200	1-way	1/1	-	Yes	Yes	Supported by design
SNC-3302	Refer to SNC-4302	H.264 M-JPEG		1	1920>	×1080	1-way	1/1	-	Yes	Yes	Supported by design
Device Name	Tested Firmware	Video Format		deo 1	Max Resolut	tion	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
SAN'												
SNZ-5200	v1.05_11121	H.264 MPEG4 M-JPEG		1	1280>	x1024	1-way	1/1	Yes	Yes	-	
SNV-7080R	Refer to SND-7080	H.264 M-JPEG		1	2048>	×1536	1-way	1/1	-	Yes	-	Supported by design
SNV-7080	Refer to SND-7080	H.264 M-JPEG		1	2048>	×1536	1-way	1/1	-	Yes	-	Supported by design
Note:	The frame ra 2.10_111227		stream o	decrea	ise to the	e half if w	atching o	dual s	tream vid	eo. Camera	a vendor fi	x this issue in FV
SNV-5010	v2.00_11072	H.264 MPEG4 M-JPEG		1	1280>	x1024	1-way	-	-	Yes	-	
Note:	PTZ: support	zoom and	l focus.									

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SNC-DH220T	Refer to SNC-DH220	H.264 MPEG4 M-JPEG	1	1920	)x1440	1-way	1/1	Yes	Yes	-	Yes	Supported by design
SNC-EP520	1.40.00	H.264 MPEG4 M-JPEG	1	720	)x480	1-way	2/1	Yes	Yes	-	Yes	
SNC-EP521	1.42.00	H.264 MPEG4 M-JPEG	1	720	)x576	1-way	2/1	Yes	Yes	-	Yes	
SNC-EP550	Refer to SNC-ER550	H.264 MPEG4 M-JPEG	1	1280	0x720	1-way	2/1	Yes	Yes	-	Yes	Supported by design
SNC-EP580	1.42.00	H.264 MPEG4 M-JPEG	1	1920	0x1080	1-way	2/1	Yes	Yes	-	Yes	
Note:	For performa	nce conside	eration,	users ar	re unable	e to wat	ch live vi	ideos o	n both N	IVR side ar	nd camera	side.
SNC-ER520	1.42.00	H.264 MPEG4 M-JPEG	1	720	)x480	1-way	2/1	Yes	Yes	-	Yes	
SNC-ER521	1.42.00	H.264 MPEG4 M-JPEG	1	720	)x576	1-way	2/1	Yes	Yes	-	Yes	
SNC-ER550	1.40.00	H.264 MPEG4 M-JPEG	1	1280	0x720	1-way	2/1	Yes	Yes	-	Yes	
SNC-ER550											Vec	
	1.51.00	H.264 MPEG4 M-JPEG	1	1920	0x1080	1-way	2/1	Yes	Yes	-	Yes	
SNC-ER580 Note:	1.51.00 For performa	MPEG4 M-JPEG										side.
SNC-ER580	For performa	MPEG4 M-JPEG										side.
SNC-ER580 Note: Vista	For performa	MPEG4 M-JPEG	eration, r	users ar		e to wate			n both N			
SNC-ER580 Note: Vista	For performa	MPEG4 M-JPEG Ince conside	eration, t C	users ar	re unable	e to wate	ch live vi	ideos o	n both N	IVR side ar	nd camera	P Remarks
SNC-ER580 Note: Vista	For performa	MPEG4 M-JPEG Ince conside Video Format H.264	t C	users ar /ideo I :h I	re unable Max Resolut	e to wate	ch live vi	ideos o I/O Ch	n both N	NVR side ar	UPn	P Remarks
SNC-ER580 Note: Vista Device Name VK2-1080VRD VK2-2MPVRD	For performa <b>Tested</b> Firmware 2.2.64 2.2.64	MPEG4 M-JPEG Ince conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M	t V	video l Ch l 1	Max Resolut 1920x 1600x	e to wate	Audio 1-way 1-way	<b>I/O</b> <b>Ch</b> 2/0 2/0	n both N PTZ	NVR side an On-Edge Motion Yes Yes	UPni Yes	P Remarks
SNC-ER580 Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note:	For performa Tested Firmware 2.2.64 2.2.64 VK2-1080V camera well VK2-1080V	MPEG4 M-JPEG Ince conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M	eration, v t V tPVRD: c	Video I Ch I 1 1 on-edge camera	Max Resolut 1920x 1600x e motion	e to wate	Audio 1-way 1-way with M-	I/O Ch 2/0 JPEG C	n both N PTZ odec wo	NVR side an On-Edge Motion Yes Yes rks only as	UPni Ves Yes	P Remarks
SNC-ER580 Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note:	For performa Tested Firmware 2.2.64 2.2.64 VK2-1080V camera well VK2-1080V	MPEG4 M-JPEG Ince conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M pormat M-JPE	eration, v t C IPVRD: c	Video I Ch I 1 1 on-edge camera	Max Resolut 1920x 1600x e motion	e to wate ion 1080 1200 of video disconne	Audio 1-way 1-way with M-	I/O Ch 2/0 JPEG C	n both N PTZ odec wo	NVR side an On-Edge Motion Yes Yes rks only as	UPni Ves Yes	Remarks         is         is         one NVR and
SNC-ER580 Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note: Note: VK2-540VRD	For performa <b>Tested</b> <b>Firmware</b> 2.2.64 2.2.64 VK2-1080V camera well VK2-1080V configure for	MPEG4 M-JPEG Ince conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M Dormat M-JPE ase H.264 MPEG4 H.264	eration, v t C IPVRD: c	video i 2h i 1 1 0n-edge camera nother.	Max Resolut 1920x 1600x e motion may be	e to wate ion 1080 1200 of video disconne	Audio 1-way 1-way with M- ected if u	I/O Ch 2/0 JPEG co Jsers co	n both N PTZ odec wo	NVR side ar On-Edge Motion Yes Yes rks only as format as	UPnI Yes Stream 1 H.264 on	Remarks         is         is         one         NVR and
SNC-ER580 Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note: Note:	For performa For performa Tested Firmware 2.2.64 2.2.64 2.2.64 VK2-1080V camera well VK2-1080V camera well VK2-1080V camera well 2.1.8-relea The operati	MPEG4 M-JPEG Ince conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M ormat M-JPEG ase H.264 MPEG4 MPEG4	eration, t V c IPVRD: c	video i ch i 1 1 1 0n-edge camera nother. 1 1 1 1	Max Resolut 1920x 1600x e motion may be 704x 704x	e to wate	Audio 1-way 1-way 0 with M- ected if u 1-way 1-way 1-way	I/O Ch 2/0 2/0 JPEG c Jsers cc 1/0 1/0	n both N PTZ odec wo onfigure Yes	NVR side an NVR side an On-Edge Motion Yes Yes format as Yes Yes	d camera UPnI Ves Stream 1 H.264 on Yes Yes	Remarks         is         is         one         NVR and

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users change HTTP port to another number on camera web.



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 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 part to another number on camera web

Vivotek

# VIVOTEK

Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
FD8133V	Refer to FD8134	H.264 MPEG4 M-JPEG	1	1280x800	-	1/0	-	Yes	Yes	Supported by design
FD8134V	Refer to FD8134	H.264 MPEG4 M-JPEG	1	1280x800	-	1/0	-	Yes	Yes	Supported by design
FD8162	Refer to FD8362	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	Yes	Yes	Yes	Supported by design
FD8361L	Refer to FD8361	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
FD8362	0100f	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	Yes	Yes	Yes	
FD8362E	Refer to FD8362	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	Yes	Yes	Yes	Supported by design
IP8151P	Refer to IP8151	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	Yes	Yes	Yes	Supported by design
IP8162	0100f	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
Note:	The frame ra HW.	te of main str	eam decre	ease to the half if	watching	g dual s	tream v	video, which is	the limit	ation of camera
IP8162P	Refer to IP8162	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	Supported by design
IP8331	0100c	H.264 MPEG4 M-JPEG	1	640x480	-	1/0	-	Yes	Yes	
MD7530	0100d	MPEG4 M-JPEG	1	640x480	1-way	1/0	-	Yes	Yes	
MD7560X	Refer to MD7560	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/0	-	Yes	Yes	Supported by design
MD8562	0100c	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/0	-	Yes	Yes	
Note:	The frame ra HW.	te of main str	eam decre	ease to the half if	watching	g dual s	tream v	video, which is	the limit	ation of camera
PZ81x1	0100e	H.264 MPEG4 M-JPEG	1	720x480	1-way	3/2	Yes	Yes	Yes	
PZ81x1W	Refer to PZ81x1	H.264 MPEG4 M-JPEG	1	720x480	1-way	3/2	Yes	Yes	Yes	Supported by design 30 / 51

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SD8362E	0102b	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	3/2	Yes	Yes	Yes	
SD83x1E	Refer to SD83x3	H.264 MPEG4 M-JPEG	1	720x480	1-way	3/2	Yes	Yes	Yes	Supported by design
Note:	SD83x1E and S	SD83x2E are	detected	as SD83x3E.						
SD83x2E	Refer to SD83x3	H.264 MPEG4 M-JPEG	1	720x480	1-way	3/2	Yes	Yes	Yes	Supported by design
Note:	SD83x1E and S	SD83x2E are	detected	as SD83x3E.						
SD83x3E	0100g	H.264 MPEG4 M-JPEG	1	720x480	1-way	3/2	Yes	Yes	Yes	
VS8401	Refer to	H.264 MPEG4	4	720x480	1-way	4/4	Yes	Yes	-	Supported by design
Zavio	VS8801	M-JPEG								ucoign
Zavio ZAV		M-JPEG Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
Zavio ZAV Device Name	Tested	Video			Audio -	<b>I/O</b> Ch 2/2	<b>PTZ</b> Yes		<b>UPnP</b> Yes	Remarks
Zavio ZAV Device Name D5110	Tested Firmware Refer to	Video Format H.264 MPEG4	Ch	Resolution	Audio	Ch		Motion		Remarks Supported by
Zavio ZAV Device Name D5110 D5111	Tested Firmware Refer to D5111 MG.1.6.03P7_	Video Format H.264 MPEG4 M-JPEG H.264 MPEG4	200 Ch	Resolution 1280x1024	-	Ch 2/2	Yes	Motion Yes	Yes	Remarks Supported by
Zavio	Tested         Firmware         Refer to         D5111         MG.1.6.03P7_app7         MG.1.6.03P3_	<b>Video</b> <b>Format</b> H.264 MPEG4 M-JPEG H.264 MPEG4 M-JPEG H.264 M-JPEG H.264	Ch           1           1	Resolution 1280x1024 1280x1024	- -	Ch 2/2 2/2	Yes	Motion Yes Yes	Yes	Remarks Supported by



# Release Version 1.2.0 (2012/2/3)

## Modules

Item		Version
FW	NVR	01.02.0000.0090
	Camera Package	01.02.0000.0090
Application	NUUO Install Wizard	1.0.0.22
(Windows)	NUUO NuClient	1.2.0.19
	NUUO Backup Player	1.2.0.19
	NUUO Offline License Tool	1.0.1.37
	NUUO Verification Tool	1.2.0.19
Application	NUUO Install Wizard	1.0.0.23
(Mac)	NUUO NuClient	1.2.0.19
	NUUO Backup Player	1.2.0.19
	NUUO Offline License Tool	N/A
	NUUO Verification Tool	1.2.0.19
Document	Titan Server User Manual	1.2.0
	NuClient User Manual	1.2.0
	Titan Quick Start Guide	1.1.0

## **New Feature**

#### [Titan Server]

1. Support recording to Storage Area Networks(iSCSI)

#### [Titan Client]

- 1. Play video from event list in Liveview/Playback—popup or assign video to empty/first grid
- 2. Popup a Camera Window when double click E-Map camera indicator
- 3. Snapshot video with Emap and I/O
- 4. Instant Playback support snapshot, export and sync to Playback
- 5. Support camera optical continuous PTZ (Depends on camera)
- 6. Add Server property: Frame rate and Bit rate

#### [New Codec support]

- 1. Support export MOV video format on Windows
- 2. Support AAC audio codec
- 3. Support MJPEG export on MAC

#### [Language support]

Chinese (Simplified), Chinese (Traditional), Czech, Dutch, English, Finnish, French, German, Hungarian, Italian, Japanese, Korean, Polish, Portuguese (Brazil), Russian, Serbian, Spanish, Swedish

\* The new supported language on v1.2 is marked as red.

### Improvement

- 1. When user selects camera item, show I/O status & controls on I/O Dock.
- 2. Playback frame by frame.
- 3. Support close video by "trash can".
- 4. "Open file after export" option for Snapshot.
- 5. Playback support drag to change cue in/ out time.
- 6. NuClient health display: download bitrate.

7. Editable cue in/out time in export dialog.

# **Bug Fixed**

#### [Titan Server]

- 1. Fixed Axis 210A will disconnect after long time connection.
- 2. Enhanced Mobotix Q22 can't be connected on MJPEG.
- 3. Fix Arecont 4CH camera-- AV8180/AV8185/AV8185DN/AV8360/AV8365, can only view one CH.
- 4. Fixed the issue that the second to forth channel of Fine WB-H814 cannot be connected.
- 5. Fixed the wrong model name detection issue on Fine WB-H814.<sup>2</sup>
- 6. DDNS configuration can be updated successfully.
- 7. Fixed the issue that frame rate and bit rate data on camera status page go wrong as users enable dual stream or start preset point patrol.

<sup>1</sup> We cannot assure the detection result if the camera returns slowly due to poor network connection.

#### [Titan Client]

- 1. After switching to Playback window, the configuration changing about content title would be applied.
- 2. When exporting video, and AP popup re-login dialog, the AP won't auto re-login after click ok.
- 3. Support Fine 1612 export MOV.
- 4. Verification tool can verify MOV files. (Note: Not support Zavio P5110)

#### **New Camera Supported**

16. Brickcom: FD-130Ae, FD-130Ap, VD-130Ae, VD-130Ap

17. LevelOne: FCS-0030, FCS-0031, FCS-0040, FCS-1121, FCS-1131, FCS-1141, FCS-1151, FCS-3061, FCS-3071, FCS-3081, FCS-3091, FCS-4041, FCS-5041, FCS-5051, FCS-6010, WCS-0030, WCS-0040

#### New Camera Support

Bric	kcom

# **Brick**com

Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
FD-130Ae	Refer to VD-130Ap	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	
FD-130Ap	Refer to VD-130Ap	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	
VD-130Ae	Refer to VD-130Ap	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	
VD-130Ap		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Supported by design
LevelOne										



The Intelligent Surveillance Solution

## NUUO version 1.6.7, Release date\_2014.5.19

Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
FCS-0030	Refer to WCS-0030	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
FCS-0031	1.0.0.35	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	Yes	Yes	
Note:	Not support on	-edge motio	on with MJ	PEG format, whi	ch is cam	era limi	itation.			
FCS-0040	Refer to WCS-0040	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-		Yes	Supported by design
Note:	Not support on	-edge motio	on current	ly due to camera	issue.					
FCS-1121	1.0.0.33	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/1	-	Yes	Yes	
FCS-1131	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
FCS-1141	L20100623NS	H.264 M-JPEG	1	1280x960	1-way	1/1	-	Yes	Yes	
Note:	UPnP search do vendor.	besn't work	properly s	ometimes, which	happens	s on car	mera's c	own search too	ol. We are	e clarifying with
FCS-1151	0100c	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	Yes	Yes	Yes	
Note:	UPnP search do vendor.	oesn't work	properly s	ometimes, which	n happens	s on car	mera's c	own search toc	ol. We are	e clarifying with
FCS-3061	1.0.0.34	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/1	-	Yes	Yes	
FCS-3071	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	Yes	
FCS-3081	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
FCS-3091	2.0.0629	MPEG4 M-JPEG	1	1600x1200	1-way	4/1	-	-	Yes	
Note:	Not support on	-edge motio	on & dual s	stream in this ca	mera FW	due to	its limit	ation.	•	
FCS-4041	LE20111116N SA	H.264 M-JPEG	1	1920x1080	1-way	4/2	Yes	Yes	Yes	
Note:	Not recommen limitation.	d to setting l	MJPEG Q F	Factor over 60 on	camera	web, be	ecause t	he video may	be broker	n due to camer
FCS-5041	1.0.0.46	H.264 MPEG4 M-JPEG	1	1280×800	1-way	1/1	-	Yes	Yes	



FCS-5051	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
FCS-6010	1.0.0.11	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/0	Yes	Yes	Yes	
Note:	Cannot get vid	Not support DO in this camera FW. Cannot get video stream through TCP/UDP sometimes, which belongs to camera issue. Camera may reboot itself when changing video format to MPEG4, which belongs to camera issue.								
WCS-0030	1.0.0.35	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	Yes	Yes	
WCS-0040	1.0.0.3	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-	-	Yes	
Note:	Not support or	Not support on-edge motion currently due to camera issue.								

## **Known Issue**

#### [Titan Server]

- 1. Please lower the GOV setting.
- 2. VIVOTEK camera IP7130 only supports MJPEG.
- 3. CNB camera: CNB-ISMC1063N Audio is not clear on G.711 codec.
- 4. Joystick control UDP camera IPE4100 PTZ will lag.

#### [Titan Client]

- 1. The following camera models not support MOV:Sony-SNC\_RX530; Zavio 5110; VIVOTEK 7131; LevelOne cameras; Zavio P5110.
- 2. The screen resolution for IE browser suggest to bigger than 1440 pixel.
- 3. Please save image fusion to view before editing it.
- 4. When minimize client, please put back the docking window.
- 5. When minimize web client to system tray, please turn off the audio.
- 6. For searching camera connection lost event, the event type need to choose "camera", "all", or event type choose "DI", and assign one camera source.
- 7. We suggest not use too long period for Playback event search.
- 8. If there's no video on Panorama Playback time span, it won't shows "no video" because Panorama can't tell if there's no video.
- 9. We suggest user install web client on IE before you install on Firefox.

## **Remote Client PC Requirement**

Remote Client System Minimum Requirement							
Model	NT-4040	NT-4040R					
OS	Windows XP (32-bit) / Win7 (32 v10.6, 10	, · ·					
CPU	Intel Core 2 Duo, 2.6GHz						
RAM	1GB						
LAN Transmission Speed	10/100/1000 Mbps (RJ45)						
WebClient	ebClient Internet Explorer 8 and later, Firefox 4.0-9.0 (Windows version)						
Mobile iViewer	iPhone, iPad, Android	d, BlackBerry					



# Release Version 1.1.2 (2011/12/7)

## Modules

Item		Version
FW	NVR	01.01.0000.0078
	Camera Package	01.01.0000.0078

### **New Feature**

- 1. Dual stream
  - Dahua
  - Everfocus
  - Forenix
  - Samsung<sup>3</sup>
  - Sunell
  - UDP

## **Bug Fixed**

- 1. Fixed the issue that motion detection function doesn't work on Sony 3<sup>rd</sup> and 4<sup>th</sup> generation cameras<sup>4</sup>.
- 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 reconnect it.
- 3. Fixed the parameter settings of Panasonic WV-SP102 and WV-SP105.
- 4. Fixed the issue that bit rate of Panasonic DG-SF334 cannot be modified.
- 5. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.
- 6. Vivotek IP71XX series cameras are compatible with iViewer.
- 7. 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**

- 18. Arecont: AV1325, AV2825, AV8185DN
- 19. 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
- 20. CNB: IDC4050F, IDC4050IR, IDC4050VF, IDC4050VR, IGC2050F, IS1765x, ISMC1063x, ISS2965x, ISSM2063x, IVC5055VF, IVC5055VR, IXC2050IR
- 21. Dahua: HDB3300N, HDB3300P, HDBW3300N, HDBW3300P, HF3110N, HF3110P, HF3211P, HF3300N, HF3300N-W, HF3300P, HF3300P-W
- 22. **Everfocus**: EAN3200, EAN800A, EAN800AW, EAN850A, EAN900, EDN3240, EDN800, EDN850H, EHN3200, EPN3100, EPN3600, EQN2200, EQN2201, EVS200A, EVS200AW, EVS410, EZN3240, EZN850
- 23. **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
- 24. Mobotix: M24, T24
- 25. 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
- 26. Sunell: SN-IPC54/11DN, SN-IPC54/12DN, SN-IPC54/20DN, SN-IPC54/50DN, SN-IPD54/11DN,

<sup>&</sup>lt;sup>3</sup> SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080R, SPE-100

SNV-5080, SNV-5080K, SPE-100 <sup>4</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 36 / 51



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
27. UDP: IPE1100M, IPE3100, IPE3500, IPE3500M, IPE4100, IPE5500, IPE6500, IPE7500, NVC1000, NVC4000, NVC4000-R12, NVC4000-R40
20. Visitation EE01731/(1001220) (1001220) (1001220) (1001220)

28. Vivotek: FE8171V, IP8133W, IP8352, IP8362, VS8102 (New FW)

# **Remote Client PC Requirement**

Remote	PC Minimum Requi	rements									
CPU	Intel Core 2	Duo, 2.6GHz									
Display Card	OpenGL 2.	0 and later									
OS Supported	Windows XP 32 bit	Windows 7 32/64 bit									
	Mac OS X 10.6/10.7										
RAM	1GB	2GB									
User Interface	<ol> <li>HTTP Web browser - Inte Firefox 7.0.1</li> <li>NUUO client application p</li> </ol>	rnet Explorer 8 and later and program									

## **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 (Carias	Low F	Profile	Minimur	n Profile
Brand/Series	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	0.1~10	QCIF~Full	0.1~10
	HD		HD	
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
	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	VGA	1	VGA	0.5
megapixel				



### NUUO version 1.6.7, Release date\_2014.5.19

others         CIF         O         O           Pelco         CIF         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~201         1~3         VGA~201         0.3~0.8           SANTEC (1.3 Mega)         VGA~201         1~3         VGA~201         0.3~0.8           SANTEC (video         VGA~201         1~3         VGA~201         0.3~0.8           SANTEC (video         VGA~201         1~3         VGA~201         0.3~0.8           Server)         Sanyo HD1, HD3,         CIF~VGA         3         CIF~VGA         1           Sanyo HD2         CIF~4 Mega         0.1~3         CIF~VGA         1           Sony         QCIF~Full         0.1~10         QCIF~Full         0.1~10           HD         1         0.1~10         QCIF~Full         0.1~10           StarDot         CIF         3         CIF         1           Sunell         D1~QCIF         0.1~10         QVGA         0.1~10           Videosec 1         QVGA         5         QQVGA <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>					
Pelco         CIF~D1         0.1~10         CIF~D1         0.1~10           Samsung         CIF         6         CIF         2           SANTEC (D1)         VGA         1~3         VGA~D1         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         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         QCIF~Full D1~QCIF         0.1~10           StarDot         CIF         3         CIF         1         1           Sunell         D1~QCIF         0.1~10         D1~QCIF         0.1~10         0.1~10           UP         QVGA~VGA         0.1~10         QVAG~VGA         0.1~10         0.1~10         0.1~10           Videosec 1         QVGA         5         QQVGA         5         0.1~10         0.1~10         0.1~10         0.1~10	Panasonic i-pro	CIF	2	CIF	1
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~D1         0.3~0.8           SANTEC (video         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         0.1~10         QCIF~Full         0.1~10           HD4         D1         0.1~10         QCIF~Full         0.1~10           Sanyo HD2         CIF~4 Mega         0.1~10         QCIF~Full         0.1~10           Sanyo HD2         CIF~4 Mega         0.1~10         QCIF~Full         0.1~10           StarDot         CIF         3         CIF         1           Sunell         D1~QCIF         0.1~10         QVGA         0.1~10           UP         QVGA         5         QUGA         5         0           Videosec 1         QVGA         5 <td></td> <td></td> <td></td> <td></td> <td></td>					
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 (1.3 Mega)         VGA~3M         1~3         VGA~3M         0.3~0.8           SANTEC (2 Mega)         VGA~3M         1~3         VGA~3M         0.3~0.8           SANTEC (video         VGA~D1         1~3         VGA~D1         0.3~0.8           SANTEC (video         VGA~D1         1~3         VGA~D1         0.3~0.8           Sanyo HD1, HD3,         CIF~VGA         3         CIF~VGA         1           HD4         2         0.1~3         CIF~VGA         1           Sanyo HD2         CIF~4 Mega         0.1~3         CIF~Full         0.1~10           StarDot         CIF         3         CIF         1           Sunell         D1~QCIF         0.1~10         D1~QCIF         0.1~10           VB         QVGA~VGA         0.1~10         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         3	Pelco				
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         VGA~D1         1~3         VGA~D1         0.3~0.8           SANTEC (video         VGA~D1         1~3         VGA~D1         0.3~0.8           Sanyo HD1, HD3, HD4         CIF~VGA         3         CIF~VGA         1           Sanyo HD2         CIF~VGA         3         CIF~4 Mega         0.1~3           Sony         QCIF~Full HD         0.1~10         QCIF~Full HD         0.1~10         0.1~10           StarDot         CIF         3         CIF         1           Sunell         D1~QCIF         0.1~10         D1~QCIF         0.1~10           UDP         QVGA         5         QVGA         0.1~10           Videosec 1         QVGA         5         QVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         3         QCIF~D1         0.1~10           Vivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 <td< td=""><td>Samsung</td><td>CIF</td><td>6</td><td>CIF</td><td>2</td></td<>	Samsung	CIF	6	CIF	2
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         D1~QCIF         0.1~10           UDP         QVGA~VGA         0.1~10         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         3         QCIF         2           7000v2/8000         CIF         3         QCIF~D1         0.1~10           (IP8330/IP832/IP         CIF         3         CIF         1           Vivotek 8000         CIF         5	SANTEC (D1)	VGA	1~3	VGA	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~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         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1 ~ 10         CIF~Full HD         0.1 ~ 10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF~D1         0.1~10           (Ys series)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         CIF         3         CIF         1           (JP8330/IP8332/IP         S         CI	SANTEC (1.3 Mega)	VGA~D1	1~3	VGA~D1	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~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         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1 ~ 10         CIF~Full HD         0.1 ~ 10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF~D1         0.1~10           (Ys series)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         CIF         3         CIF         1           (JP8330/IP8332/IP         S         CI	SANTEC (3 Mega)	VGA~3M	1~3	VGA~3M	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         0.1~3           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         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1 ~ 10         CIF~Full HD         0.1~ 10           Vivotek         CIF         3         QCIF         2           7000v2/8000         CIF         3         QCIF~D1         0.1~10           Vivotek         CIF         3         QCIF~D1         0.1~10           Vivotek 8000         QCIF         3         CIF         1           (IP8330/IP8332/IP         S352)         CIF         3         2           Vivotek 8000         CIF         5		VGA~D1	1~3	VGA~D1	
HD4         Image: Constraint of the second sec	server)				
HD4       Image: Constraint of the system of t	Sanyo HD1, HD3,	CIF~VGA	3	CIF~VGA	1
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         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         5         CIF         2           7000v2/8000 (General)         CIF         3         QCIF~D1         0.1~10           Vivotek         CIF         3         QCIF~D1         0.1~10           Vivotek 8000 (2 Mega)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (2 Mega)         CIF         3         CIF         1           Vivotek 8000 (2 Mega)         CIF         3         CIF         1           Vivotek 8000 (1P8330/IP8332/IP         CIF         5         CIF         3           Vivotek 8000 (1P8362)         CIF					
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         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         5         CIF         2           7000v2/8000 (General)         CIF         3         QCIF~D1         0.1~10           Vivotek         CIF         3         QCIF~D1         0.1~10           Vivotek 8000 (2 Mega)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (2 Mega)         CIF         3         CIF         1           Vivotek 8000 (2 Mega)         CIF         3         CIF         1           Vivotek 8000 (1P8330/IP8332/IP         CIF         5         CIF         3           Vivotek 8000 (1P8362)         CIF	Sanyo HD2	CIF~4 Mega	0.1~3	CIF~4 Mega	0.1~3
HD         HD         HD           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         QVGA~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1 ~ 10         CIF~Full HD         0.1 ~ 10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (Yvotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         CIF         3         CIF         1           (IP8330/IP8332/IP         CIF         5         CIF         3           Vivotek 8000         CIF         5         QIF         3           Vivotek 8000         CIF			0.1~10		0.1~10
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         QVGa~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (Yivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (VS series)         Vivotek 8000         CIF         3         CIF         1           S352)         CIF         5         CIF         3         2           Vivotek 8000         CIF         5         CIF         3           (IP8362)         CIF         5         QCIF         3	,	-		-	
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         QVGa~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           Vivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (Vs series)         CIF         3         CIF         1           Vivotek 8000         CIF         3         CIF         1           (IP8330/IP8332/IP         CIF         5         CIF         3           Vivotek 8000         CIF         5         QCIF         3           Vivotek 8000         CIF         5         QIF         3	StarDot	CIF	3	CIF	1
TRUEN         CIF~Full D1         0.1~10         CIF~Full D1         0.1~10           UDP         QVGA~VGA         0.1~10         QVAG~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         0.1~10         QCIF~D1         0.1~10           Vivotek         CIF         3         QCIF         3           7000v2/8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (Z Mega)         Vivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         CIF         3         CIF         1         1           8352)         CIF         5         CIF         3           Vivotek 8000         CIF         5         QCIF         3           Vivotek 8000         CIF         5         QCIF         3           Vivotek 8000         CIF         5         QCIF		D1~QCIF	0.1~10	D1~QCIF	0.1~10
UDP         QVGA~VGA         0.1~10         QVAG~VGA         0.1~10           Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1~10         CIF~Full HD         0.1~10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (2 Mega)         Vivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         QCIF         3         CIF         1         1           (IP8330/IP8332/IP         CIF         5         CIF         3         3           Vivotek 8000         CIF         5         QCIF         3         3           Vivotek 8000         CIF         5         QCIF         3         3           Zavio         CIF         5 <td></td> <td></td> <td></td> <td></td> <td></td>					
Videosec 1         QVGA         5         QQVGA         5           Videosec 2         CIF~Full HD         0.1 ~ 10         CIF~Full HD         0.1 ~ 10           Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000         CIF         3         QCIF         3           7000v2/8000         CIF         3         QCIF         3           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           Vivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           (VS series)         CIF         3         CIF         1           8352)         CIF         3         CIF         3           Vivotek 8000         CIF         5         CIF         3           (IP8362)         CIF         5         QCIF         3			0.1~10		
Videosec 2         CIF~Full HD         0.1 ~ 10         CIF~Full HD         0.1 ~ 10           Vivotek         CIF         5         CIF         2           7000v2/8000 (General)         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000 (2 Mega)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (2 Mega)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (2 Mega)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (IP8330/IP8332/IP 8352)         CIF         3         CIF         1           Vivotek 8000 (IP8362)         CIF         5         CIF         3           Zavio         CIF         5         QCIF         3					5
Vivotek         CIF         5         CIF         2           7000v2/8000         CIF         3         QCIF         3           Vivotek         CIF         3         QCIF         3           7000v2/8000         CIF         3         QCIF         3           7000v2/8000         CIF         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000         CIF         3         CIF         1           Vivotek 8000         CIF         5         CIF         3           Vivotek 8000         CIF         5         QIF         3           Vivotek 8000         CIF         5         QIF         3           Vivotek 8000         CIF         5         QIF         3			0.1 ~ 10		0.1 ~ 10
7000v2/8000 (General)       CIF       3       QCIF       3         Vivotek (2 Mega)       CIF       3       QCIF~D1       0.1~10       0.1~10         Vivotek 8000 (VS series)       QCIF~D1       0.1~10       QCIF~D1       0.1~10         Vivotek 8000 (IP8330/IP8332/IP 8352)       CIF       3       CIF       1         Vivotek 8000 (IP8362)       CIF       5       CIF       3         Zavio       CIF       5       QCIF       3					
(General)         Image: CIF         3         QCIF         3           7000v2/8000 (2 Mega)         CIF         3         QCIF         3           Vivotek 8000 (VS series)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (VS series)         CIF         3         CIF         1           Vivotek 8000 (IP8330/IP8332/IP 8352)         CIF         5         CIF         3           Vivotek 8000 (IP8362)         CIF         5         QCIF         3           Zavio         CIF         5         QCIF         3					
Vivotek       CIF       3       QCIF       3         7000v2/8000       2       Mega       2       Mega       3       2         Vivotek 8000       QCIF~D1       0.1~10       QCIF~D1       0.1~10         (Vs series)       QCIF       3       2       2         Vivotek 8000       CIF       3       2       1         (IP8330/IP8332/IP       CIF       3       2       1         Vivotek 8000       CIF       5       CIF       3         Vivotek 8000       CIF       5       3       3         Zavio       CIF       5       QCIF       3	-				
7000v2/8000 (2 Mega)       QCIF~D1       0.1~10       QCIF~D1       0.1~10         Vivotek 8000 (VS series)       QCIF~D1       0.1~10       QCIF~D1       0.1~10         Vivotek 8000 (IP8330/IP8332/IP 8352)       CIF       3       CIF       1         Vivotek 8000 (IP8362)       CIF       5       CIF       3         Zavio       CIF       5       QCIF       3	· · · · · ·	CIF	3	OCIF	3
(2 Mega)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (VS series)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (IP8330/IP8332/IP 8352)         CIF         3         CIF         1           Vivotek 8000 (IP8362)         CIF         5         CIF         3           Zavio         CIF         5         QCIF         3	7000v2/8000				
Vivotek 8000 (VS series)         QCIF~D1         0.1~10         QCIF~D1         0.1~10           Vivotek 8000 (IP8330/IP8332/IP 8352)         CIF         3         CIF         1           Vivotek 8000 (IP8362)         CIF         5         CIF         3           Zavio         CIF         5         QCIF         3					
(VS series)         C <thc< th="">         C         <thc< td=""><td></td><td>OCIF~D1</td><td>0.1~10</td><td>OCIF~D1</td><td>0.1~10</td></thc<></thc<>		OCIF~D1	0.1~10	OCIF~D1	0.1~10
Vivotek 8000 (IP8330/IP8332/IP 8352)       CIF       3       CIF       1         Vivotek 8000 (IP8362)       CIF       5       CIF       3         Zavio       CIF       5       QCIF       3		C			
(IP8330/IP8332/IP          8352)     Vivotek 8000     CIF     5     CIF     3       Vivotek 8000     CIF     5     QCIF     3       Zavio     CIF     5     QCIF     3	· · · ·	CIF	3	CIF	1
8352)         CIF         5         CIF         3           Vivotek 8000 (IP8362)         CIF         5         QCIF         3           Zavio         CIF         5         QCIF         3					
Vivotek 8000 (IP8362)         CIF         5         CIF         3           Zavio         CIF         5         QCIF         3					
(IP8362)         CIF         5         QCIF         3		CIF	5	CIF	3
Zavio CIF 5 QCIF 3					
		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

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



#### New Camera Support

Arecont Marecont megapoet tech beyond ima	hology											
Device Name	Tested Firmware	Video Format	Video Ch	Max Reso	olution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
AV1325		H.264 M-JPEG	1	128	0x1024	-	-	-	Yes	-	Yes	Supported by design
AV2825		H.264 M-JPEG	1	192	0x1080	-	1/1	-	Yes	-	Yes	Supported by design
AV8185DN		H.264 M-JPEG	4	160	0x1200	-	-	-	Yes	-	Yes	Supported by design
AXIS	Tested Firmware	Video Format		ideo h	Max Resolu	tion		I/O Ch		On-Edge Motion	UPnF	P Remarks
M3113-R		H.264 M-JPEG		1	800	x600	-	-	Yes	Yes	Yes	Supported by design
M3113-VE		H.264 M-JPEG		1	800	x600	-	-	Yes	Yes	Yes	Supported by design
M3114-VE		H.264 M-JPEG		1	1280	x800	-	-	Yes	Yes	Yes	Supported by design
M5013		H.264 M-JPEG		1	800	x600	1-way	-	Yes	Yes	Yes	Supported by design
M5014		H.264 MPEG4		1	1280	x720	1-way	2/2	Yes	Yes	Yes	Supported by design
M7001		H.264 M-JPEG		1	720	x576	-	-	Yes	Yes	Yes	Supported by design
P3304		H.264 M-JPEG		1	1280	x800	1-way	1/1	Yes	Yes	Yes	Supported by design
P3304-V		H.264 M-JPEG		1	1280	x800	1-way	1/1	Yes	Yes	Yes	Supported by design
P5512		H.264 M-JPEG		1	704	x480	1-way	4/4	Yes	Yes	Yes	Supported by design
Р5512-Е		H.264 M-JPEG		1	704	x480	1-way	4/4	Yes	Yes	Yes	Supported by design
P5522		H.264 M-JPEG		1	720:	x480	1-way	4/4	Yes	Yes	Yes	Supported by design
Р5522-Е		H.264 M-JPEG		1	720:	x480	1-way	4/4	Yes	Yes	Yes	Supported by design
Q6032		H.264 M-JPEG		1	752:	x480	1-way	4/4	Yes	Yes	Yes	Supported by design



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Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
	la									
ixc2050IR Dahua	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
IVC5055VR	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
IVC5055VF	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
ISSM2063x	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported by design
ISS2965x	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported by design
ISMC1063x	XNET.A1-1.01. 11.0125	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	Yes	Yes	
IS1765x	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	1/1	Yes	-	Yes	Supported by design
IGC2050F	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 unde	er high pa	aramete	r settin	gs.	_1	1
IDC4050VR	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
(DC4050VF	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
IDC4050IR	XNET.M1-1.10 .11.0822	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
IDC4050F	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
	GY Inc.									
Q6035-E		H.264 M-JPEG	1	1280x720	1-way	-	Yes	Yes	Yes	Supported by design
Q6035		H.264 M-JPEG	1	1280x720	1-way	4/4	Yes	Yes	Yes	Supported by design
Q6034-E		H.264 M-JPEG	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported by design



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HDB3300N		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
HDB3300P		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
HDBW3300N	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	
HDBW3300P		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
HF3110N		H.264 M-JPEG	1	1280x960	1-way	1/1	Yes	Yes	-	Supported by design
HF3110P	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1280x960	1-way	1/1	Yes	Yes	-	
HF3211P	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1920x1080	1-way	2/1	Yes	Yes	-	
HF3300N	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	
HF3300N-W		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design
HF3300P		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design
HF3300P-W		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design
Note:	HP3300 serie	s: there may	be image	noise of dual stre	am, whic	h can b	e obser	ved from the o	camera	web as well.
Note:	Setting prese	et point doesn	't work pro	operly.						
Note:	PTZ is only s	upported by e	xternal RS	-485 device.						
Everfocus	6									
<b>Ever</b>	ocus®									

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	41 / 51



Note:	Fix stream 1	as recording st	ream an	d fix stream 2 fo	r mobile o	client us	sed.			
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:		5200AW: Fix st upported by ex		s recording strea -485 device.	am and fi	x strear	n 2 for	mobile client	used.	
EVS410	1.0.14	H.264 MJPEG	4	704x480	1-way	4/1	Yes	Yes	Yes	
Note:	PTZ is only s	upported by ex	ternal RS	S-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 FOR	ENIX									
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
ACDV-3VM501	1	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
АТСР-МН802	H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-MH802D N	H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-MH802D N/WI	H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-MH802 WI	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
B0100	H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
B1100	H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
C1100	H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
C1100-W	H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
C2100	H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
D0100	H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
D1100	H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design



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D2100		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
GE-100-VS		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
Mobotix	MOBOTIX									
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
M24	MX-V4.0.4.19	M-JPEG	1	2048x1536	1-way	-	-	Yes	-	
T24	MX-V4.0.4.19	M-JPEG	1	2048x1536	1-way	7/3	-	Yes	-	
Samsung										
SAMSUN	ELECTRONICS					_				_
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
SNB-1000	v1.07_110407	H.264 MPEG4 M-JPEG	1	640x480	1-way	1/1	-	Yes	-	
Note:	This is POE car	mera, but the	device is	unstable withou	t AC pow	er conn	ection.	We suggest co	nnecting	with AC powe
Note:	I/O and MD is discontinued.	unstable, whic	ch is a kn	own issue report	ed by Sar	nsung.	They w	on't do any cha	ange sind	the camera
SNB-5000	v1.33_110218	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
SND-1010	v1.07_110407	H.264 MPEG4 M-JPEG	1	640x480	-	1/1	-	Yes	-	
Note:	This is POE car	mera, but the	device is	unstable withou	t AC pow	er conn	ection.	We suggest co	nnecting	with AC powe
Note:	I/O and MD is discontinued.	unstable, whic	ch is a kn	own issue report	ed by Sar	msung.	They w	on't do any cha	ange sind	the camera
SND-5080/F	v2.00_110608	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
SNO-5080R	v1.00_110514	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
SNP-3120/V/ VH	v1.24_110816	H.264	1	704x480	1-way	2/2	Yes	Yes	-	
Note:	It takes a while	e to stop after	users cl	ick stop patrol b	utton.					
SNP-3430H	v1.10_110818	H.264 MPEG4 M-JPEG	1	704x480	1-way	8/4	Yes	Yes	-	
	1		1	ı	1	1	1	I	1	44 / 51



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Note:	This is POE car	nera, but the	device is	unstable without	t AC pow	er conn	ection.	We suggest co	nnecting	with AC power.				
Note:	There is a cam FW 1.11_111		that we c	annot get VBR/C	BR info t	o show	quality	or bit rate corr	ectly. Ple	ease upgrade to				
Note:	Voice cracks in choose to expo			th ASF format, w	hile the a	udio of	video fi	le is correctly r	ecorded	actually. Please				
Note:	Not support Ar	ea Zoom due	to proto	col limitation.										
Note:	The speed sele	ections of PTZ	and focu	is in LiveView is r	not synch	ironized	l with ca	amera web due	e to prote	ocol limitation.				
SNP-5200		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-	Supported by design				
SNP-5200H	v1.02_110603	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-					
Note:	SNP-5200/520 recorded actua	SNP-5200/5200H: voice cracks in the video exported with ASF format, while the audio of video file is correctly ecorded actually. Please choose to export with AVI format.												
Note:	SNP-5200/520	SNP-5200/5200H: not support Area Zoom due to protocol limitation.												
Note:	SNP-5200/520 protocol limitat		l selectio	ns of PTZ and fo	cus in Liv	veView	is not sy	nchronized wi	th came	ra web due to				
SNV-5080		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	Supported by design				
SNV-5080R	v1.00_110421	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-					
Note:	It's likely failed encountering t			ameter in high re camera web.	solution (	configu	ration. I	t happens on S	5NO-508	OR most. When				
SPE-100	v1.19_110317	H.264 MPEG4 M-JPEG	1	704x480	1-way	1/1	Yes	Yes	-					
Note:	SPE-100 PTZ is same phenome			may not be stopp	oed after	operatii	ng. This	is camera FW	bug, we	can observe the				
Note:				camera paramel please go to can			ution co	nfiguration. It	happens	on SNO-5080R				
Note:	All cameras: if synchronized.	configuring fix	xed fram	e rate on camera	a web, pa	iramete	r select	ion on NVR we	b page v	von't be				
	ELL													
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 45 / 51				



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SN-IPC54/20 DN	1.6_build0440 11_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.

### UDP



TECHNOLOGY

Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
IPE1100M		H.264 MPEG4 M-JPEG	1	720x582	1-way	1/1	-	Yes	Yes	Supported by design
IPE3100		H.264 MPEG4 M-JPEG	1	768x576	1-way	1/1	-	Yes	Yes	Supported by design
IPE3500		H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
IPE3500M	1.6.7	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	
IPE4100	1.6.6	H.264 MPEG4 M-JPEG	1	720x576	1-way	4/2	Yes	Yes	Yes	
IPE5500		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design



IPE6500		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design
IPE7500		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported b design
NVC1000	1.6.7	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/2	Yes	Yes	Yes	
NVC4000	1.6.7	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	
NVC4000-R12		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported b design
NVC4000-R40		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported b design
Note:				if configuring can e, please reboot			requent	ly. This is the	known iss	sue from came
Note: Vivotek	encountering	s are likely diso this issue, plo		if setting up high ot the camera, ar					om came	
Vivotek	encountering								UPnP	Remarks
Vivotek	encountering	Video	ease reboo	bt the camera, an	nd do not	set up	this cor	ofiguration.		
Vivotek	encountering Tested Firmware 0100d	Video Format H.264 MPEG4	ease reboo Video Ch 1	Max Resolution 1600x1200	Audio	set up	this cor	On-Edge Motion	UPnP	
Vivotek	encountering Tested Firmware 0100d	Video Format H.264 MPEG4 M-JPEG	ease reboo Video Ch 1	Max Resolution 1600x1200	Audio	set up	this cor	On-Edge Motion	UPnP	Remarks
Vivotek	encountering	Video Format H.264 MPEG4 M-JPEG ction is not int H.264 MPEG4 MPEG4 M-JPEG	ease reboo Video Ch 1 regrated in 1	Max Resolution 1600x1200 this version.	Audio 1-way 1-way	<b>I/O</b> <b>Ch</b> 1/1	PTZ -	On-Edge Motion Yes	UPnP       Yes	Remarks Supported b design

Note:	release, please upgrade to new camera FW then.					5				
IP8362	0100d	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/0	-	Yes	Yes	Supported by design
VS8102		H.264 MPEG4 M-JPEG	1	720x576	1-way	1/1	-	Yes	Yes	



# Release Version 1.1.0 (2011/11/1)

## Modules

Item		Version
FW	NVR	01.01.0000.0069
	Camera Package	01.01.0000.0069
Application	NUUO Install Wizard	1.0.0.20
(Windows)	NUUO NuClient	1.0.0.14
	NUUO Backup Player	1.0.0.14
	NUUO Offline License Tool	1.0.1.37
	NUUO Verification Tool	1.0.0.3
Application	NUUO Install Wizard	1.0.0.20
(Mac)	NUUO NuClient	1.1.0.9
	NUUO Backup Player	1.1.0.9
	NUUO Offline License Tool	N/A
	NUUO Verification Tool	1.0.0.3
Document	Titan Server User Manual	1.1.0
	NuClient User Manual	1.1.0
	Titan Quick Start Guide	1.1.0

## **New Feature**

- 1. New OS support: Mac OS X 10.6/10.7
- 2. New browser support
  - Windows Firefox 7.0.1
    - Mac Safari 5.1 (7534.48.3) for configuration only
- 3. Verification Tool

## **Known Issue**

#### [Titan Server]

- 5. The color of 5 megapixel video image is not correctly displayed on Local Display. This is the limitation of server graphic card.
- 6. The word of input field it's not grayed out apparently, while the function is disabled as design, which might be Safari's bug.

#### [Client\_Mac version]

- 1. Only .mov format is supported in video exportation, which is the current limitation of NuClient.
- 2. Not support magic mouse on some special operations (i.e. multi-touch function), which may cause error.
- 3. Cannot play exported high definition video (over 720p) properly by QuickTime player 10.1 with Mac OS X 10.7, while the same video plays well on QuickTime 10.0 with Mac OS X 10.6. This may be a limitation of QuickTime.

Note: The version is mainly on Mac support, issues of Client (Windows) in v1.0.0 aren't fixed yet.

## **Remote Client PC Requirement**

Remote	Remote PC Minimum Requirements					
CPU	CPU Intel Core 2 Duo, 2.6GHz					
Display Card						



NUUO version 1.6.7, Release date\_2014.5.19

OS Supported	Windows XP 32 bit	Windows 7 32/64 bit Mac OS X 10.6/10.7
RAM	1GB	2GB
User Interface	<ol> <li>HTTP Web browser - Inte Firefox 7.0.1</li> <li>NUUO client application p</li> </ol>	rnet Explorer 8 and later and

# **Release Version 1.0.0 (2011/9)**

## Modules

Item		Version
FW	NVR	01.00.0000.0065
	Camera Package	01.00.0000.0065
Application	NUUO Install Wizard	1.0.0.20
	NUUO NuClient	1.0.0.14
	NUUO Backup Player	1.0.0.14
	NUUO Offline License Tool	1.0.1.37
Document	Titan Server User Manual	1.0.0
	NuClient User Manual	1.0.0
	Titan Quick Start Guide	1.0.0

## **Known Issue**

### [Titan Server]

- 1. Video on Local Display may hang 0.3 second every 2 seconds. There is no this issue on LiveView and Playback.
- 2. Users can name the I/O devices with more than 64 characters in web client, but only 64 characters will be saved. We suggest users not keying in more than 64 characters.
- 3. There is no popup message as the maximum user connections of Live View and Playback has been reached. We suggest users setting maximum connections of Live View as 256 in server.<sup>5</sup> If users have trouble of logging in, please reduce the concurrent connections.

### [Web Client]

- 1. For VIVOTEK PZ7131 camera, users can save more than 16 preset points in web client; however, users can only add up to 16 preset points in Client AP.
- 2. When clicking on the snapshot icon on view panel of web client, view panel may flash a lot before image pops up. It happens in view under image fusion, but it has no impact on function. The factor of this issue is IE browser, so there is no solution currently.
- 3. As web client minimizes to system tray, users can still hear camera audio, which isn't synchronized with the behavior of client AP.
- 4. Full screen is only supported in Client AP, but not in web client.
- 5. Do not support 64bit IE.

### [NuClient]

- 1. If the network of slaves is not stable, please don't configure more than 5 slaves to a master.
- 2. AP may crash under long-time live viewing if receiving audio from some certain cameras, especially megapixel cameras.
- 3. Drag the scroll bar back to make the image complete, or you cannot use camera content tool bar.

<sup>&</sup>lt;sup>5</sup> Maximum connections of Playback is 128, which is defaulted and can't be modified



- 4. If the graphic card you use is ATI 4350, the image is disappeared when doing digital PTZ.
- 5. If the version of ATI HD4800 driver is in the year of 2010, it's likely that time line is not updated as dragging camera to grid.
- 6. Videos cannot be displayed on the Client PC with on-board graphic card. Do not support on-board graphic card.<sup>6</sup>

### [NuClient: Playback]

- 1. When playing back to the timeline without recording videos, the image will stay on the final frame of last video clip until playing to a new one.
- 2. In Playback mode, switch to single layout by double clicking a camera, and drag a camera to the grid, you may discover the timeline of this channel disappeared. Users can switch to other layouts when encountering this issue.
- 3. Some specific cameras, such as Arecont AV 2100, have floating FPS<sup>7</sup> problem which may lead to temporarily repeating video images when playing back.
- 4. Frame may stay still for a while as searching in Motion Search, which will be improved in coming version.
- 5. It's impossible to search any DI event log in Playback if the selected source type is "all", which implies that the only way to search DI event is selecting source type as "DI".
- 6. It's likely that system cannot query any event if there are too many events searched. When encounter this issue, try not to select event name as "all".
- 7. When playing back videos with both ImmerVision and non-ImmerVision mode recording, there may be no ImmerVision function icon displayed on camera content toolbar, which will become normal as refreshing the view by switching LiveView/Playback or switching views and play again.
- 8. As megapixel ImmerVision Camera switches to Perimeter Mode, the system may hang in a short period. This is the restraint of ImmerVision and there is no impact on function. If it does matter to users, please try to lower the resolution to avoid this problem.
- 9. The keying function doesn't work on cue in/out time of selected video period on Backup Tool through Playback page, but it works on Backup Tool through LiveView. Recommend to select time by timeline bar or adjust it by mouse wheel.

#### [Other Application]

1. In Backup Player, video cannot be updated to the correct time when doing skip forward/backward under the condition of video pause. There is no this issue on NuClient.

## Notice

1. Supported languages in this version includes English, Japanese, Traditional Chinese, Spanish, French, Italian, Russian, Korean, Português (Brasil) and Finnish.

## **Potential Risk**

The following cameras are supported by design, which implies that they may contain potential error; if you encounter some problems, please contact our Support Team: service@nuuo.com.



# **Remote Client PC Requirement**

<sup>&</sup>lt;sup>6</sup> User may not encounter this issue if the on-board graphic card supports OpenGL 2.0 and later

<sup>&</sup>lt;sup>7</sup> FPS stands for frame per second



Remote PC Minimum Requirements					
CPU	Intel Core 2	Duo, 2.6GHz			
Display Card	nVidia or ATI wi	th 1GB memory			
	(OpenGL 2.	0 and later)			
OS Supported	Windows XP 32 bit Windows 7 32/64 bit				
RAM	1GB 2GB				
User Interface	5. HTTP Web browser - Internet Explorer 8 and later				
	6. NUUO client application p	rogram			