

## Release Version 1.2.0 (2012/2/3)

### Modules

Item	Version	
<b>FW</b>	NVR	01.02.0000.0090
	Camera Package	01.02.0000.0090
<b>Application (Windows)</b>	NUUO Install Wizard	1.0.0.22
	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
<b>Application (Mac)</b>	NUUO Install Wizard	1.0.0.23
	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
<b>Document</b>	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

#### [Titan Client]

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>1</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

1. Brickcom: FD-130Ae, FD-130Ap, VD-130Ae, VD-130Ap
2. 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

#### Brickcom


## Brickcom

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

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Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>FCS-0030</b>	Refer to WCS-0030	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>FCS-0031</b>	1.0.0.35	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	Yes	Yes	
Note:	Not support on-edge motion with MJPEG format, which is camera limitation.									
<b>FCS-0040</b>	Refer to WCS-0040	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-		Yes	Supported by design
Note:	Not support on-edge motion currently due to camera issue.									
<b>FCS-1121</b>	1.0.0.33	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/1	-	Yes	Yes	
<b>FCS-1131</b>	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
<b>FCS-1141</b>	L20100623NS	H.264 M-JPEG	1	1280x960	1-way	1/1	-	Yes	Yes	
Note:	UPnP search doesn't work properly sometimes, which happens on camera's own search tool. We are clarifying with vendor.									
<b>FCS-1151</b>	0100c	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	Yes	Yes	Yes	
Note:	UPnP search doesn't work properly sometimes, which happens on camera's own search tool. We are clarifying with vendor.									
<b>FCS-3061</b>	1.0.0.34	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/1	-	Yes	Yes	
<b>FCS-3071</b>	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	Yes	
<b>FCS-3081</b>	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
<b>FCS-3091</b>	2.0.0629	MPEG4 M-JPEG	1	1600x1200	1-way	4/1	-	-	Yes	
Note:	Not support on-edge motion & dual stream in this camera FW due to its limitation.									
<b>FCS-4041</b>	LE20111116N SA	H.264 M-JPEG	1	1920x1080	1-way	4/2	Yes	Yes	Yes	
Note:	Not recommend to setting MJPEG Q Factor over 60 on camera web, because the video may be broken due to camera limitation.									
<b>FCS-5041</b>	1.0.0.46	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/1	-	Yes	Yes	

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<b>FCS-5051</b>	L20101222NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
<b>FCS-6010</b>	1.0.0.11	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/0	Yes	Yes	Yes	
Note:	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.									
<b>WCS-0030</b>	1.0.0.35	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	Yes	Yes	
<b>WCS-0040</b>	1.0.0.3	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-	-	Yes	
Note:	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-ISM1063N 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 and 64-bit) / Mac OS X v10.6, 10.7	
CPU	Intel Core 2 Duo, 2.6GHz	
RAM	1GB	
LAN Transmission Speed	10/100/1000 Mbps (RJ45)	
WebClient	Internet Explorer 8 and later, Firefox 4.0-9.0 (Windows version)	
Mobile iViewer	iPhone, iPad, Android, 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>2</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>3</sup>.
2. 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

3. Arecont: AV1325, AV2825, AV8185DN
4. 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
5. CNB: IDC4050F, IDC4050IR, IDC4050VF, IDC4050VR, IGC2050F, IS1765x, ISMC1063x, ISS2965x, ISSM2063x, IVC5055VF, IVC5055VR, IXC2050IR
6. **Dahua**: HDB3300N, HDB3300P, HDBW3300N, HDBW3300P, HF3110N, HF3110P, HF3211P, HF3300N, HF3300N-W, HF3300P, HF3300P-W
7. **Everfocus**: EAN3200, EAN800A, EAN800AW, EAN850A, EAN900, EDN3240, EDN800, EDN850H, EHN3200, EPN3100, EPN3600, EQN2200, EQN2201, EVS200A, EVS200AW, EVS410, EZN3240, EZN850
8. **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
9. Mobotix: M24, T24
10. 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
11. **Sunell**: SN-IPC54/11DN, SN-IPC54/12DN, SN-IPC54/20DN, SN-IPC54/50DN, SN-IPD54/11DN,

<sup>2</sup> SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100

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

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- 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
12. **UDP:** IPE1100M, IPE3100, IPE3500, IPE3500M, IPE4100, IPE5500, IPE6500, IPE7500,  
 NVC1000, NVC4000, NVC4000-R12, NVC4000-R40
13. Vivotek: FE8171V, IP8133W, IP8352, IP8362, VS8102 (New FW)

## Remote Client PC Requirement

Remote PC Minimum Requirements		
<b>CPU</b>	Intel Core 2 Duo, 2.6GHz	
<b>Display Card</b>	OpenGL 2.0 and later	
<b>OS Supported</b>	Windows XP 32 bit	Windows 7 32/64 bit Mac OS X 10.6/10.7
<b>RAM</b>	1GB	2GB
<b>User Interface</b>	1. HTTP Web browser - Internet Explorer 8 and later and Firefox 7.0.1 2. NUUO client application 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/Series	Low Profile		Minimum Profile	
	Resolution	Framerate	Resolution	Framerate
ACTi	CIF	3~6	CIF	1~2
Arecont	half	3	half	1
Axis	CIF	5	QCIF	5
Brickcom	CIF	10	CIF	4
CNB 1	CIF~SXGA	0.1~10	CIF~SXGA	0.1~10
CNB 2	QVGA~D1	0.1~10	QVGA~D1	0.1~10
CNB 3	QVGA~D1	0.1~10	QVGA~D1	0.1~10
Dahua	CIF	5	CIF	2
Dahua (HF3211P)	D1~1080p	0.1~10	D1~1080p	0.1~10
Dynacolor	QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
Eneo 1	QCIF~Full D1	0.1~10	QCIF~Full D1	0.1~10
Eneo 2	QCIF~Half D1	0.1~10	QCIF~Half D1	0.1~10
Eneo 3	CIF~Full D1	0.1~10	CIF~Full D1	0.1~10
Eneo 4	CIF	5	CIF	2
Eneo 5	CIF	15	CIF	5
EverFocus (ONVIF)	QCIF~UXGA	0.1~6	QCIF~UXGA	0.1~6
EverFocus (Others)	QVGA	5	QVGA	1.5
Fine	CIF	1~3	CIF	0.1~1.5
Forenix	CIF	1~3	CIF	0.1~0.5
Grundig	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
Honeywell	640x368	15	640x368	5
Mobotix	CIF	3	QCIF	2
NetworkCamera	CIF	10	CIF	4
Panasonic BB/BL	CIF	4	QCIF	2
Panasonic i-pro 3 megapixel	VGA	1	VGA	0.5

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Panasonic i-pro others	CIF	2	CIF	1
Pelco	CIF~D1	0.1~10	CIF~D1	0.1~10
Samsung	CIF	6	CIF	2
SANTEC (D1)	VGA	1~3	VGA	0.3~0.8
SANTEC (1.3 Mega)	VGA~D1	1~3	VGA~D1	0.3~0.8
SANTEC (3 Mega)	VGA~3M	1~3	VGA~3M	0.3~0.8
SANTEC (video server)	VGA~D1	1~3	VGA~D1	0.3~0.8
Sanyo HD1, HD3, HD4	CIF~VGA	3	CIF~VGA	1
Sanyo HD2	CIF~4 Mega	0.1~3	CIF~4 Mega	0.1~3
Sony	QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
StarDot	CIF	3	CIF	1
Sunell	D1~QCIF	0.1~10	D1~QCIF	0.1~10
TRUEN	CIF~Full D1	0.1~10	CIF~Full D1	0.1~10
UDP	QVGA~VGA	0.1~10	QVAG~VGA	0.1~10
Vidosec 1	QVGA	5	QQVGA	5
Vidosec 2	CIF~Full HD	0.1 ~ 10	CIF~Full HD	0.1 ~ 10
Vivotek 7000v2/8000 (General)	CIF	5	CIF	2
Vivotek 7000v2/8000 (2 Mega)	CIF	3	QCIF	3
Vivotek 8000 (VS series)	QCIF~D1	0.1~10	QCIF~D1	0.1~10
Vivotek 8000 (IP8330/IP8332/IP8352)	CIF	3	CIF	1
Vivotek 8000 (IP8362)	CIF	5	CIF	3
Zavio	CIF	5	QCIF	3
Zavio (Mega)	CIF	7	CIF	2

CNB 1: IGx10xx, ixP40xx ixP4000xx

CNB 2: INS2000/IBxxxx/Xpeed IP

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

Eneo 1: GLS-1701/IR

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

Vidosec 1: IBF-211, IDA-210, IP-206M, IS-240

Vidosec 2: ICS-13, ICS-20F, ID-20

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## New Camera Support

### Arecont



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

### AXIS



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
M3113-R		H.264 M-JPEG	1	800x600	-	-	Yes	Yes	Yes	Supported by design
M3113-VE		H.264 M-JPEG	1	800x600	-	-	Yes	Yes	Yes	Supported by design
M3114-VE		H.264 M-JPEG	1	1280x800	-	-	Yes	Yes	Yes	Supported by design
M5013		H.264 M-JPEG	1	800x600	1-way	-	Yes	Yes	Yes	Supported by design
M5014		H.264 MPEG4	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported by design
M7001		H.264 M-JPEG	1	720x576	-	-	Yes	Yes	Yes	Supported by design
P3304		H.264 M-JPEG	1	1280x800	1-way	1/1	Yes	Yes	Yes	Supported by design
P3304-V		H.264 M-JPEG	1	1280x800	1-way	1/1	Yes	Yes	Yes	Supported by design
P5512		H.264 M-JPEG	1	704x480	1-way	4/4	Yes	Yes	Yes	Supported by design
P5512-E		H.264 M-JPEG	1	704x480	1-way	4/4	Yes	Yes	Yes	Supported by design
P5522		H.264 M-JPEG	1	720x480	1-way	4/4	Yes	Yes	Yes	Supported by design
P5522-E		H.264 M-JPEG	1	720x480	1-way	4/4	Yes	Yes	Yes	Supported by design
Q6032		H.264 M-JPEG	1	752x480	1-way	4/4	Yes	Yes	Yes	Supported by design



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<b>Q6034-E</b>		H.264 M-JPEG	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported by design
<b>Q6035</b>		H.264 M-JPEG	1	1280x720	1-way	4/4	Yes	Yes	Yes	Supported by design
<b>Q6035-E</b>		H.264 M-JPEG	1	1280x720	1-way	-	Yes	Yes	Yes	Supported by design

## CNB



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>IDC4050F</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IDC4050IR</b>	XNET.M1-1.10 .11.0822	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
<b>IDC4050VF</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IDC4050VR</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design

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

<b>IGC2050F</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IS1765x</b>	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	1/1	Yes	-	Yes	Supported by design
<b>ISMC1063x</b>	XNET.A1-1.01. 11.0125	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	Yes	Yes	
<b>ISS2965x</b>	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported by design
<b>ISSM2063x</b>	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported by design
<b>IVC5055VF</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IVC5055VR</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design
<b>IXC2050IR</b>	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported by design

## Dahua



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
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<b>HDB3300N</b>		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
<b>HDB3300P</b>		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
<b>HDBW3300N</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	
<b>HDBW3300P</b>		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
<b>HF3110N</b>		H.264 M-JPEG	1	1280×960	1-way	1/1	Yes	Yes	-	Supported by design
<b>HF3110P</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1280×960	1-way	1/1	Yes	Yes	-	
<b>HF3211P</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1920×1080	1-way	2/1	Yes	Yes	-	
<b>HF3300N</b>	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	
<b>HF3300N-W</b>		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design
<b>HF3300P</b>		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design
<b>HF3300P-W</b>		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design

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

Note: Setting preset point doesn't work properly.

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


## Everfocus



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	1920×1080	1-way	1/1	-	Yes	Yes	
EAN800A	1.2.5	H.264 MPEG4 MJPEG	1	704×576	1-way	1/1	-	Yes	Yes	
EAN800AW	1.2.5	H.264 MPEG4 MJPEG	1	704×576	1-way	1/1	-	Yes	Yes	Supported by design
EAN850A	1.2.5	H.264 MPEG4 MJPEG	1	704×576	1-way	1/1	-	Yes	Yes	
EAN900	1.2.5	H.264 MPEG4 MJPEG	1	1280×1024	1-way	1/1	-	Yes	Yes	

# Titan NVR Release Note

NUUO version 1.2.0, Release date\_2012.2.3

Note:	Fix stream 1 as recording stream and fix stream 2 for mobile client used.									
EDN3240	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EDN800	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	
EDN850H	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	-	Yes	Yes	
EHN3200	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EPN3100	1.2.14	H.264 MPEG4 MJPEG	1	704x576	1-way	4/2	Yes	Yes	Yes	Supported by design
EPN3600	1.2.14	H.264 MPEG4 MJPEG	1	704x576	1-way	4/2	Yes	Yes	Yes	
EQN2200	1.0.27	H.264 MJPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
EQN2201	1.0.27	H.264 MJPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design
EVS200A	1.2.8	H.264 MPEG4 MJPEG	2	704x576	1-way	2/2	Yes	Yes	Yes	
EVS200AW	1.2.8	H.264 MPEG4 MJPEG	2	704x576	1-way	2/2	Yes	Yes	Yes	Supported by design
EDN3240	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
Note:	EVS200A/EVS200AW: Fix stream 1 as recording stream and fix stream 2 for mobile client used. PTZ is only supported by external RS-485 device.									
EVS410	1.0.14	H.264 MJPEG	4	704x480	1-way	4/1	Yes	Yes	Yes	
Note:	PTZ is only supported by external RS-485 device.									
EZN3240	1.0.14	H.264 MJPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
EZN850	1.2.5	H.264 MPEG4 MJPEG	1	704x576	1-way	1/1	Yes	Yes	Yes	
Note:	PTZ: support focus only.									
<b>Forenix</b>										
										
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
ACDV-3VM501		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design

# Titan NVR Release Note

NUUO version 1.2.0, Release date\_2012.2.3

<b>AEP-Q2018HW-IP</b>		H.264 M-JPEG	1	720x480	-	-	Yes	Yes	Yes	Supported by design
<b>AEP-Q2026HW-IP</b>		H.264 M-JPEG	1	720x480	-	-	Yes	Yes	Yes	Supported by design
<b>AEP-Q2036HW-IP</b>		H.264 M-JPEG	1	720x480	-	-	Yes	Yes	Yes	Supported by design
<b>ASP-PTIR737-IP</b>		H.264 M-JPEG	1	720x576	-	-	Yes	Yes	Yes	Supported by design
<b>ASP-PTIR737-LA-IP</b>		H.264 M-JPEG	1	720x576	-	-	Yes	Yes	Yes	Supported by design
<b>ATCP-IRH503 0C</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>ATCP-IRH504 0C</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>ATCP-MH802</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>ATCP-MH802DN</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>ATCP-MH802DN/WI</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>ATCP-MH802WI</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>ATCP-VM501</b>		H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
<b>AWB-H811</b>		H.264 M-JPEG	1	720x480	-	2/2	Yes	Yes	Yes	Supported by design
<b>AWB-H814</b>		H.264 M-JPEG	1	720x576	-	4/4	-	Yes	Yes	Supported by design
<b>B0100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>B1100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>C1100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>C1100-W</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>C2100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>D0100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design
<b>D1100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design

# Titan NVR Release Note

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<b>D2100</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	1/0	-	Yes	Yes	Supported by design
<b>GE-100-VS</b>		H.264 M-JPEG MPEG4	1	1280x800	1-way	-	-	Yes	Yes	Supported by design

## Motorix



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

## Samsung



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>SNB-1000</b>	v1.07_110407	H.264 MPEG4 M-JPEG	1	640x480	1-way	1/1	-	Yes	-	
Note:	This is POE camera, but the device is unstable without AC power connection. We suggest connecting with AC power.									
Note:	I/O and MD is unstable, which is a known issue reported by Samsung. They won't do any change since the camera is discontinued.									
<b>SNB-5000</b>	v1.33_110218	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
<b>SND-1010</b>	v1.07_110407	H.264 MPEG4 M-JPEG	1	640x480	-	1/1	-	Yes	-	
Note:	This is POE camera, but the device is unstable without AC power connection. We suggest connecting with AC power.									
Note:	I/O and MD is unstable, which is a known issue reported by Samsung. They won't do any change since the camera is discontinued.									
<b>SND-5080/F</b>	v2.00_110608	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
<b>SNO-5080R</b>	v1.00_110514	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
<b>SNP-3120/V/ VH</b>	v1.24_110816	H.264 MPEG4 M-JPEG	1	704x480	1-way	2/2	Yes	Yes	-	
Note:	It takes a while to stop after users click stop patrol button.									
<b>SNP-3430H</b>	v1.10_110818	H.264 MPEG4 M-JPEG	1	704x480	1-way	8/4	Yes	Yes	-	

# Titan NVR Release Note

NUUO version 1.2.0, Release date\_2012.2.3

Note:	This is POE camera, but the device is unstable without AC power connection. We suggest connecting with AC power.									
Note:	There is a camera FW issue that we cannot get VBR/CBR info to show quality or bit rate correctly. Please upgrade to FW 1.11_111103 to fix it.									
Note:	Voice cracks in the video exported with ASF format, while the audio of video file is correctly recorded actually. Please choose to export with AVI format.									
Note:	Not support Area Zoom due to protocol limitation.									
Note:	The speed selections of PTZ and focus in LiveView is not synchronized with camera web due to protocol limitation.									
<b>SNP-5200</b>		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-	Supported by design
<b>SNP-5200H</b>	v1.02_110603	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-	
Note:	SNP-5200/5200H: voice cracks in the video exported with ASF format, while the audio of video file is correctly recorded actually. Please choose to export with AVI format.									
Note:	SNP-5200/5200H: not support Area Zoom due to protocol limitation.									
Note:	SNP-5200/5200H: the speed selections of PTZ and focus in LiveView is not synchronized with camera web due to protocol limitation.									
<b>SNV-5080</b>		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	Supported by design
<b>SNV-5080R</b>	v1.00_110421	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
Note:	It's likely failed to query camera parameter in high resolution configuration. It happens on SNO-5080R most. When encountering this issue, please go to camera web.									
<b>SPE-100</b>	v1.19_110317	H.264 MPEG4 M-JPEG	1	704x480	1-way	1/1	Yes	Yes	-	
Note:	SPE-100 PTZ is abnormal, which PTZ may not be stopped after operating. This is camera FW bug, we can observe the same phenomenon on camera web.									
Note:	All cameras: it's likely failed to query camera parameter in high resolution configuration. It happens on SNO-5080R most. When encountering this issue, please go to camera web.									
Note:	All cameras: if configuring fixed frame rate on camera web, parameter selection on NVR web page won't be synchronized.									

## Sunell



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>SN-IPC54/11 DN</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
<b>SN-IPC54/12 DN</b>		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design

# Titan NVR Release Note

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<b>SN-IPC54/20 DN</b>	1.6_build0440 11_061	H.264 M-JPEG	1	704x576	1-way	-	-	Yes	-	
<b>SN-IPC54/50 DN</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
<b>SN-IPD54/11 DN</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
<b>SN-IPD54/12 DN</b>		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design
<b>SN-IPR54/50 DN</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
<b>SN-IPS54/60 DN/Z18</b>		H.264 M-JPEG	1	704x576	1-way	-	-	Yes	-	Supported by design
<b>SN-IPS54/60 DN/Z36</b>		H.264 M-JPEG	1	704x576	1-way	-	-	Yes	-	Supported by design
<b>SN-IPV54/11 DN</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
<b>SN-IPV54/12 DN</b>		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design
<b>SN-IPV54/50 DN</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
<b>SN-IPV54/50 DR</b>		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
Note:	Do not support I/O due to camera FW limitation.									

## UDP



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

# Titan NVR Release Note

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<b>IPE6500</b>		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design
<b>IPE7500</b>		H.264 MPEG4 M-JPEG	1	752x582	1-way	1/1	-	Yes	Yes	Supported by design
<b>NVC1000</b>	1.6.7	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/2	Yes	Yes	Yes	
<b>NVC4000</b>	1.6.7	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	
<b>NVC4000-R12</b>		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported by design
<b>NVC4000-R40</b>		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported by design

Note: UDP cameras are likely disconnected if configuring camera parameter frequently. This is the known issue from camera vendor. When encountering this issue, please reboot the camera.

Note: UDP cameras are likely disconnected if setting up highest quality. This is the known issue from camera vendor. When encountering this issue, please reboot the camera, and do not set up this configuration.

## Vivotek



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
<b>FE8171V</b>	0100d	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	
Note:	De-wrap function is not integrated in this version.									
<b>IP8133W</b>	0100c	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Supported by design
Note:	Due to the parameter limitation of stream 1, we take stream 2 as main stream for recording and liveview.									
<b>IP8352</b>	0100g	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Supported by design
Note:	I/O status is abnormal, which input and output cannot be triggered at the same time. Vivotek will fix the bug in next release, please upgrade to new camera FW then.									
<b>IP8362</b>	0100d	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/0	-	Yes	Yes	Supported by design
<b>VS8102</b>	0202c2	H.264 MPEG4 M-JPEG	1	720x576	1-way	1/1	-	Yes	Yes	



## Release Version 1.1.0 (2011/11/1)

### Modules

Item	Version	
<b>FW</b>	NVR	01.01.0000.0069
	Camera Package	01.01.0000.0069
<b>Application (Windows)</b>	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
	NUUO Verification Tool	1.0.0.3
<b>Application (Mac)</b>	NUUO Install Wizard	1.0.0.20
	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
<b>Document</b>	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 PC Minimum Requirements	
<b>CPU</b>	Intel Core 2 Duo, 2.6GHz
<b>Display Card</b>	OpenGL 2.0 and later

# Titan NVR Release Note

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<b>OS Supported</b>	Windows XP 32 bit	Windows 7 32/64 bit Mac OS X 10.6/10.7
<b>RAM</b>	1GB	2GB
<b>User Interface</b>	3. HTTP Web browser - Internet Explorer 8 and later and Firefox 7.0.1 4. NUUO client application program	

## Release Version 1.0.0 (2011/9)

### Modules

Item		Version
<b>FW</b>	NVR	01.00.0000.0065
	Camera Package	01.00.0000.0065
<b>Application</b>	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
<b>Document</b>	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>4</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>4</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>5</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>6</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](mailto:service@nuuo.com).



Camera Package  
Potential Risk

## Remote Client PC Requirement

<sup>5</sup> User may not encounter this issue if the on-board graphic card supports OpenGL 2.0 and later

<sup>6</sup> FPS stands for frame per second

<b>Remote PC Minimum Requirements</b>		
<b>CPU</b>	Intel Core 2 Duo, 2.6GHz	
<b>Display Card</b>	nVidia or ATI with 1GB memory (OpenGL 2.0 and later)	
<b>OS Supported</b>	Windows XP 32 bit	Windows 7 32/64 bit
<b>RAM</b>	1GB	2GB
<b>User Interface</b>	5. HTTP Web browser - Internet Explorer 8 and later 6. NUUO client application program	