

# 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!)

- 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

#### [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.

#### [Titan Client]

- 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]

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

#### [Titan Client]

- 1. [Camera issue] (Grandstream GXV3601): Fix the issue that audio codec G.726 is not support.
- 2. [Camera issue] (CNB IDC4050VR): Fix the issue that video not play smoothly.
- 3. Fix the issue that playback might not show timeline casually.
- 4. If camera has high bit rate, the liveview video can't be played smoothly.
- 5. Webclient export MOV files incorrectly.
- 6. 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.

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



#### 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 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.

#### [Titan Client]

- 1. [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.
- 2. [Camera issue] (VIVOTEK IP7135): If camera resolution over 640x480, the performance will be lower with resolution increase. (Camera SDK limitation.)
- 3. 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.
- 4. 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)
- 5. 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.)
- 6. For E-Map picture, please not use too big resolution, or it can't be shown on View.
- 7. When save video to msAVI, please not save more than 4GB every file.
- 8. 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>4 / 4</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	Comoros	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

5 / 5



	IXC8050IR,				
	IVC5050xx,IVP5055xx, IDP5055xx,IXP3055VR				
CORUM		CIF	1~3	CIF	0.1~1.5
Dahua (Others)		CIF	5	CIF	2
Dahua	HF3211P	D1~1080p	0.1~10	D1~1080p	0.1~10
Digital Watch Dog		CIF~1080p	0.1~10	CIF~1080p	0.1~10
Dynacolor		QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
Eneo	GLS-1701/IR	QCIF~Full D1	0.1~10	QCIF~Full D1	0.1~10
Eneo	GLS-2104	QCIF~Half D1	0.1~10	QCIF~Half D1	0.1~10
Eneo	GLS-2301H	CIF~Full D1	0.1~10	CIF~Full D1	0.1~10
Eneo	NLC-1401, NLD-1401, NLS-1401	CIF	5	CIF	2
Eneo	NXC-1301M, NXC-1302M, NXC-1401M, NXC-1402M, NXD-1301M, NXD-1302M, NXD-1401M, NXD-1402M	CIF	15	CIF	5
EverFocus (ONVIF)	EQN2200, EQN220	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
Grandstream (D1/PAL/Video server)	GXV-3501, GXV-3504, GXV-3601, GXV-3601LL, GXV-3611LL, GXV-3615,	176x112~35 2x288	0.1~5	176x112~35 2x288	0.1~5
Grandstream (SXGA)	GXV-3662HD	320x240	0.1~10	320x240	0.1~10
Grandstream (UXGA)	GXV-3601HD, GXV-3611HD	320x240	0.1~5	320x240	0.1~5
Grandstream (5 megapixel)	GXV-3651FHD	320x240	0.1~10	320x240	0.1~10
Grundig		QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
Honeywell		640x368	15	640x368	5
LevelOne B1	WCS-0030, FCS-0030, FCS-0031, FCS-1121, FCS-5041, FCS-6010	CIF	10	CIF	4
LevelOne B2	FCS-3061	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
LevelOne D	FCS-1131, FCS-1141, FCS-3071, FCS-3081, FCS-4041, FCS-5051, FCS-5061	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
LevelOne S	FCS-0040, WCS-0040	CIF	10	CIF	3
LevelOne V	FCS-1151	CIF	3	QCIF	3
Mobotix		CIF	3	QCIF	2
NetworkCamera		CIF	10	CIF	4
Panasonic BB/BL		CIF	4	QCIF	2
Panasonic i-pro 3 megapixel		VGA	1	VGA	0.5
Panasonic i-pro others		CIF	2	CIF	1
Pelco		CIF~D1	0.1~10	CIF~D1	0.1~10
Peico Probe		QCIF~720p	0.1~10	QCIF~720p	0.1~10
	SNB-1000, SNB-5000,	CIF			-
Samsung	SND 1000, SND 3000,		6	CIF	2 6/6



NUUO version 1.3.0, Release date\_2012.5.8

	SND-1010, SND-5080/F, SNO-5080R,				
	SNP-3120/V/VH,				
	SNP-3430H, SNP-5200,				
	SNP-5200H, SNV-5080,				
Samsung	SNV-5080R, SPE-100 SNP-3301, SNP-3370	CIF	0.1~10	CIF	0.1~10
Samsung	SNV-3120, SNB-7000,	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
	SND-7080, SNV-5010, SNZ-5200	-		-	
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, VDC-HD3500	CIF~VGA	3	CIF~VGA	1
HD4	HD3: VCC-HD5400,				
	VCC-HD5600				
	HD4: VCC-HD4600				
Sanyo HD2	HD2: VCC-HD2100, VCC-HD2300,	CIF~4 Mega	0.1~3	CIF~4 Mega	0.1~3
	VDC-HD3100,				
<u> </u>	VDC-HD3300				
Sony		QCIF~Full	0.1~10	QCIF~Full	0.1~10
		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	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,	CIF	5	CIF	2
Vivotek	VK2-VGAVFD				
	VK2-VGAVFD	CIF	5	CIF	2
7000v2/8000	VK2-VGAVFD	CIF	5	CIF	2
7000v2/8000 (General)	VK2-VGAVFD				
7000v2/8000 (General) Vivotek	VK2-VGAVFD	CIF CIF	5 3	CIF QCIF	2 3
7000v2/8000 (General) Vivotek 7000v2/8000	VK2-VGAVFD				
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega)	VK2-VGAVFD	CIF	3	QCIF	3
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000	VK2-VGAVFD				
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series)		CIF QCIF~D1	3	QCIF QCIF~D1	3 0.1~10
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000	IP8330, IP8332, IP8352	CIF QCIF~D1 CIF	3 0.1~10 3	QCIF QCIF~D1 CIF	3 0.1~10 1
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000 Vivotek 8000	IP8330, IP8332, IP8352 IP8362	CIF QCIF~D1 CIF CIF	3 0.1~10 3 5	QCIF QCIF~D1 CIF CIF	3 0.1~10 1 3
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000	IP8330, IP8332, IP8352 IP8362 FD8162, FD8362, FD8362E, IP8162, MD8562	CIF QCIF~D1 CIF CIF CIF	3 0.1~10 3 5 8	QCIF QCIF~D1 CIF CIF QCIF	3 0.1~10 1 3 6
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000 Vivotek 8000	IP8330, IP8332, IP8352 IP8362 FD8162, FD8362, FD8362E, IP8162, MD8562 SD8362E	CIF QCIF~D1 CIF CIF CIF CIF	3 0.1~10 3 5 8 6	QCIF QCIF~D1 CIF CIF QCIF QCIF	3 0.1~10 1 3 6 6
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000 Vivotek 8000 Vivotek 8000	IP8330, IP8332, IP8352 IP8362 FD8162, FD8362, FD8362E, IP8162, MD8562	CIF QCIF~D1 CIF CIF CIF	3 0.1~10 3 5 8	QCIF QCIF~D1 CIF CIF QCIF	3 0.1~10 1 3 6
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000 Vivotek 8000 Vivotek Vivotek	IP8330, IP8332, IP8352 IP8362 FD8162, FD8362, FD8362E, IP8162, MD8562 SD8362E IP8331, MD7530, MD7560X, PZ81x1, PZ81x1W, SD8313E,	CIF QCIF~D1 CIF CIF CIF CIF	3 0.1~10 3 5 8 6 3 5	QCIF QCIF~D1 CIF CIF QCIF QCIF	3 0.1~10 1 3 6 6 3 3
7000v2/8000 (General) Vivotek 7000v2/8000 (2 Mega) Vivotek 8000 (VS series) Vivotek 8000 Vivotek 8000 Vivotek Vivotek Vivotek	IP8330, IP8332, IP8352 IP8362 FD8162, FD8362, FD8362E, IP8162, MD8562 SD8362E IP8331, MD7530, MD7560X, PZ81x1, PZ81x1W, SD8313E,	CIF QCIF~D1 CIF CIF CIF CIF CIF	3 0.1~10 3 5 8 6 3	QCIF QCIF~D1 CIF QCIF QCIF QCIF QCIF	3 0.1~10 1 3 6 6 3

7 / 7



#### New Camera Support

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	ion: 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	ion: 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	ion: 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	ion: 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	ion: H.264	and MPE	G4.							
КСМ7111	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	-	Yes	-	Yes	
Note:	On-edge mot	ion: 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	ion: H.264	and MPE	G4.							
Arecont Arecont megacikel tech beyond ima											
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
AV1115	65201	H.264 M-JPEG	1	1280x1024	-	1/1	-	Yes	-	Yes	



## NUUO version 1.3.0, Release date\_2012.5.8

CS-265-IO / CS-265-IP / CS-265-IW		H.264 M-JPEG		1	1600×	(1200	1-way	1/1	-	Yes	-	Supported by design
CS-190-IO / CS-190-IP / CS-190-IW		H.264 M-JPEG		1	1600×	(1200	1-way	1/1	-	Yes	-	Supported by design
Device Name	Tested Firmware	Video Format		'ideo h	Max Resolut	ion	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
COR	JM ctv											
CORUM		M-JPEG		Ţ	7042	570	_	7/4	165	105	165	design
232D+		MPEG4		1	704>	(576	_	4/4	Yes	Yes	Yes	Supported by
231D+		MPEG4 M-JPEG		1	704>	(576	-	4/4	Yes	Yes	Yes	Supported by design
Device Name	Tested Firmware	Video Format		'ideo h	Max Resolut	ion:	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
Note: AXIS	For multiple- protocols on										s if config	uring different
Note:	On-edge mot	ion: turn off	the "e	nable e	extended	on mot	ion detec	tion" fi	unction	on camera w	eb.	
AV20365DN	Refer to AV20185DN	H.264 M-JPEG	4	256	0x1920	-	1/1	-	Yes	-		Supported by design
AV20185DN	65170	H.264 M-JPEG	4	256	0x1920	-	1/1	-	Yes	-	Yes	
AV10115	65201	H.264 M-JPEG	1	364	8x2752	-	1/1	-	Yes	-	Yes	
AV5125	65201	H.264 M-JPEG	1	256	0x1600	-	1/1	-	Yes	-	Yes	
AV5115	65201	H.264 M-JPEG	1	256	0x1600	-	1/1	-	Yes	-	Yes	
AV3125	Refer to AV3115	H.264 M-JPEG	1	204	8x1536	-	1/1	-	Yes	-		Supported by design
AV3115	65201	H.264 M-JPEG	1	204	8x1536	-	1/1	-	Yes	-	Yes	
AV2125	65201	H.264 M-JPEG	1	192	0x1056	_	1/1	-	Yes	-	Yes	
AV2115	Refer to AV2125	H.264 M-JPEG	1	192	0x1056	-	1/1	-	Yes	-		Supported by design
AV1125	Refer to AV1115	H.264 M-JPEG	1	128	0x1024	-	1/1	-	Yes	-		Supported by design

9/9



	- I	1					r	1		1			
CS-285-IP / CS-285-IW		H.264 M-JPEG		1	1600x1	1200	1-way	1/1	-	Yes		-	Supported by design
CS-325-IO / CS-325-IP		H.264 M-JPEG		1	1600x1	1200	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	1200	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	1024	1-way	-	-	Yes		-	Supported by design
- VVA	atch Do GITAL ICHDOG Iverything's Digital			_			_	_		_	_		
Device Name	Tested Firmware	Video Format	Video Ch	-	olution	Audio	I/O Ch	PTZ	On-Edg Motion	UPnP	ON\ Sea		lemarks
MPA20M	1.0.0.0	H.264 MPEG4 M-JPEG	1	192	0x1080	-	-	-	-	-	Ye	es	
				v1 02									
Note:	Implement v	vith ONVIF p	protocol	V1.02.									
Note:						search v	works on	y as c	ameras	keep defau	ılt adn	ninistra	ator name and
	Due to the li password. There are tw network, you network, you	mitation of o o port settir u can use th	ONVIF p ngs on c is web p	orotoco amera port as	l, ONVIF s web, web configurin	port an ng port	id service on NVR.	port. While	When N if NVR a	VR and can nd camera	nera a are lo	are loca ocated	ated in the sam
Note:	Due to the li password. There are tw network, you network, you wrong url.	mitation of o o port settir u can use th	ONVIF p ngs on c is web p	orotoco amera port as	l, ONVIF s web, web configurin	port an ng port	id service on NVR.	port. While	When N if NVR a	VR and can nd camera	nera a are lo	are loca ocated	ated in the sam in different
Note: Note: Grandstr	Due to the li password. There are tw network, you network, you wrong url.	mitation of o o port settir u can use th	ONVIF p ngs on c is web p	orotoco amera port as	l, ONVIF s web, web configurin	port an ng port	id service on NVR.	port. While	When N if NVR a	VR and can nd camera	nera a are lo	are loca ocated	ated in the sam in different
Note: Note: Grandstr	Due to the li password. There are tw network, you network, you wrong url. eam	mitation of o o port settir u can use th	ONVIF p ngs on c is web p se servi	orotoco amera port as	l, ONVIF s web, web configurin	port an ng port latter, "	d service on NVR. go to we	port. While	When N if NVR a	VR and can nd camera	nera a are k g pag	are loca ocated	ated in the sam in different
Note: Note: Grandstr Grandstr	Due to the li password. There are tw network, you wrong url. eam	mitation of o o port settir a can use th a must choo	ONVIF p ngs on c is web p se servi	protoco amera port as ice port	I, ONVIF s web, web   configurin t. For the I	port an 1g port latter, " on	d service on NVR. go to we	port. While b" fun	When N' if NVR a ction on	VR and cam nd camera NVR settin	nera a are k g pag	are loca ocated ge migh	ated in the sam in different nt direct to the
Note: Note: Grandstr Construction Device Name	Due to the li password. There are tw network, you wrong url. eam Stream	mitation of o o port settin can use th must choo Video Format	ONVIF p ngs on c is web p se servi	protoco amera port as ice port <b>/ideo</b> Ch	I, ONVIF s web, web   configurin t. For the I For the I	port an 1g port latter, " on 480	d service on NVR. go to we	port. While b" fun <b>I/O</b> <b>Ch</b>	When N' if NVR a ction on PTZ Yes	VR and cam nd camera NVR settin On-Edge Motion	nera a are k g pag	are locz ocated ge migh UPnP	ated in the sam in different nt 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 0.0.4.25	video Format H264 H264 H264	ONVIF p ngs on c is web p se servi	protoco amera port as ice port /ideo Ch	I, ONVIF s web, web   configurin t. For the I For the I Max Resolutio	port an 1g port latter, " on 480	Audio	port. While b" fun <b>I/O</b> <b>Ch</b> 1/1	When N' if NVR a ction on PTZ Yes	VR and cam nd camera NVR settin On-Edge Motion Yes	nera a are k g pag	UPnP	ated in the sam in different nt direct to the
Note: Note: Grandstr Grandstr Oevice Name GXV-3501 GXV-3504	Due to the li password. There are tw network, you wrong url. eam Stream Tested Firmware 0.0.4.25	video Format H264 H264 H264 H264 H264	ONVIF p ngs on c is web p se servi	/ideo Ch	I, ONVIF so web, web of configurin configurin t. For the of the o	port an 1g port latter, " on 480 480 480	Audio 1-way 1-way	i port. While b" fun <b>I/O</b> <b>Ch</b> 1/1 4/4	When N' if NVR a ction on PTZ Yes Yes Yes	VR and cam nd camera NVR settin On-Edge Motion Yes Yes	nera a are k g pag	UPnP	ated in the sam in different nt direct to the
Note: Grandstr Grandstr Device Name GXV-3501 GXV-3504 GXV-3601	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 o port settin a can use th a must choo Video Forma H264 M-JPEG H264 M-JPEG H264 M-JPEG	ONVIF p ngs on c is web p se servi	/ideo Ch	I, ONVIF so web, web of configurin configurin t. For the l For the l 704x4 704x4	port an 1g port latter, " on 480 480 480 1200	Audio 1-way 1-way 1-way	2 port. While b" fun <b>I/O</b> <b>Ch</b> 1/1 4/4 1/1	When N' if NVR a ction on PTZ Yes Yes Yes Yes	VR and cam nd camera NVR settin On-Edge Motion Yes Yes Yes	nera a are k g pag	UPnP	ated in the sam in different nt direct to the
Note: Grandstr Grandstr Oevice Name GXV-3501 GXV-3504 GXV-3601 GXV-3601HD	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 o port settir a can use the must chood of the must	ONVIF p ngs on c is web p se servi	2 porotoco amera port as ice port 1 1 1 1 1 1 1	I, ONVIF s web, web configurin t. For the I 704x4 704x4 704x4 1600x1 720x5	port an ng port latter, " on 480 480 480 1200 576	Audio 1-way 1-way 1-way 1-way 1-way 1-way	<pre>port. While b" fun I/1 1/1 1/1 1/1 1/1</pre>	When N 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		UPnP	ated in the sam in different nt direct to the



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	l 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	l 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	ith M-JPEC	G codec currently						
Note:	Video cannot b issue.	e connected	under the	following setting	s: H.264	codec,	2560x1	920, fps < 5. T	his migh	it be camera FV
Note:	Video disconne light. This mig			llowing settings:	H.264 co	odec, m	negapixo	el, fps >= 2, hi	ighest bi	t rate with dim
GXV-3662HD	0.0.1.50	H264	1	1280x960	1-way	1/1	-	Yes	-	
		M-JPEG								
Note:	All cameras: a		G.726 cc	odec.		I				
	All cameras: a	udio noise or udio is not pla	aying smo	othly as users wa	tch live v	ideos o	n both I	NVR side and ca	amera si	de, which migh
Note:	All cameras: a	udio noise or udio is not pla	aying smo	othly as users wa	tch live v	ideos o	n both I	NVR side and ca	amera si	de, which migh
Note:	All cameras: a All cameras: a be camera FW	udio noise or udio is not pla	aying smo	othly as users wa	tch live v	ideos o	n both I	NVR side and ca	amera si	de, which migh
Note: Note: LevelOne	All cameras: a All cameras: a be camera FW	udio noise or udio is not pla	aying smo	othly as users wa	tch live v	ideos o I/O Ch	n both l	NVR side and ca On-Edge Motion	amera si UPnP	de, which migh
Note: Note: LevelOne	All cameras: a All cameras: a be camera FW	udio noise or udio is not pla bug or perfo	aying smo rmance co Video	othly as users wa		1/0		On-Edge		
Note: LevelOne	All cameras: a All cameras: a be camera FW Cone' Tested Firmware V1.0.04 The frame rate issue.	udio noise or udio is not pla bug or perfo 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	All cameras: a All cameras: a be camera FW COCE Tested Firmware V1.0.04 The frame rate issue. Not support or	udio noise or udio is not pla bug or perfo 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 LevelOne Device Name FCS-3031 Note: Panasonio Pana	All cameras: a All cameras: a be camera FW COCE Tested Firmware V1.0.04 The frame rate issue. Not support or	udio noise or udio is not pla bug or perfo 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 LevelOne Device Name FCS-3031 Note: Panasonio Pana	All cameras: a All cameras: a be camera FW Cone' Tested Firmware V1.0.04 The frame rate issue. Not support or Sonic	udio noise or udio is not pla bug or perfo 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: Note: LevelOne Device Name FCS-3031 Note: Panasonic Panasonic	All cameras: a All cameras: a be camera FW COCC Tested Firmware V1.0.04 The frame rate issue. Not support or SONIC Tested	udio noise or udio is not pla bug or perfo Video Format MPEG4 M-JPEG e is 15 even co n-edge motio	aying smo rmance co Video Ch 1 onfiguring n currentl Video	Max Resolution 640x480 frame rate 1 uno y due to camera	Audio 1-way der 320x2 issue.	<b>I/O</b> <b>Ch</b> 1/1 240 and	<b>PTZ</b> - 1160x11	On-Edge Motion - 20 resolution, v	UPnP Yes vhich be	Remarks
Note: Note: LevelOne Device Name FCS-3031 Note: Panasonic Pana Device Name	All cameras: a All cameras: a be camera FW COCC Tested Firmware V1.0.04 The frame rate issue. Not support or SODIC Tested Firmware Refer to	Video Format MPEG4 M-JPEG a is 15 even co n-edge motion Video Format H.264 MPEG4	aying smo rmance co Video Ch 1 onfiguring n currentl Video Ch	Max Resolution 640x480 frame rate 1 uno y due to camera	Audio 1-way ler 320x2 issue.	I/O Ch 240 and I/O Ch	PTZ 	On-Edge Motion - 20 resolution, v	UPnP Yes which be	Remarks longs to camer Remarks Supported by



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	Bε											
Device Name		Video Format	Video Ch	Max Reso	olution	Audio	I/O Ch	PTZ	On-Edg Motion	e UPnP	ONVIF Search	Remarks
PMI-H2000	v1.0.0_2012	H264 M-JPEG	1			1-way	-	Yes	-	Yes	Yes	
	0106			-	1920x1080 (1080i) 1-way							
Note:	Implement wi		protocol	v1.02.		I	1					
	Implement wi	th ONVIF p				search v	works onl	y as c	ameras k	keep defau	lt adminis	trator name and
Note:	Implement wi Due to the lim password.	th ONVIF p nitation of ( a FW issue,	ONVIF p users h	protoco	I, ONVIF							
Note:	Implement wi Due to the lim password. Due to camera error message	th ONVIF p nitation of ( a FW issue, e on NVR s	ONVIF p users h	protoco	I, ONVIF							trator name and y, users might ge
Note: Samsung	Implement wi Due to the lim password. Due to camera error message	th ONVIF p nitation of ( a FW issue, e on NVR s	DNVIF p users h ide.	protoco	I, ONVIF	nera web	o for confi				i. Currentl	y, users might ge
Note: Samsung	Implement wi Due to the lim password. Due to camera error message	th ONVIF p nitation of ( a FW issue, e on NVR si	DNVIF p users h ide.	protoco ave to /ideo	go to car	nera web	o for confi	igurin I/O	g resoluti	on to 1080 On-Edge	i. Currentl	y, users might ge
Note: Samsung SAMSU Device Name SNB-7000	Implement wi Due to the lim password. Due to camera error message	th ONVIF p nitation of 0 a FW issue, e on NVR si Video Format H.264 M-JPEG	DNVIF p users h ide.	orotoco ave to /ideo :h	go to car Max Resolut 2048:	nera web	o for confi	igurin I/O Ch	g resoluti	on to 1080 On-Edge Motion	i. Currentl	y, users might ge          P       Remarks         Supported by
Note: Samsung SAMSU Device Name SNB-7000 SND-7080	Implement wi Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to SNB-7080	th ONVIF p nitation of 0 a FW issue, e on NVR si Video Format H.264 M-JPEG 19 H.264 M-JPEG H.264	DNVIF p users h ide.	vorotoco ave to /ideo /h	Max Resolut 2048:	tion	Audio	I/O Ch	g resoluti PTZ	on to 1080 On-Edge Motion Yes	i. Currentl	y, users might ge          P       Remarks         Supported by
Note: Note: Samsung SAMSU Device Name SNB-7000 SND-7080 SNP-3301	Implement wi Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to SNB-7080 v1.10_1108	th ONVIF p nitation of 0 a FW issue, e on NVR si Video Format H.264 M-JPEG 19 H.264 M-JPEG H.264 M-JPEG H.264 H.264	DNVIF p users h ide.	rotoco ave to /ideo /h 1	Max Resolut 2048: 2048: 704:	tion <1536	Audio 1-way 1-way	<b>I/O</b> Ch 1/1 1/1	g resoluti PTZ Yes	On to 1080 On-Edge Motion Yes Yes	i. Currentl	y, users might ge          P       Remarks         Supported by
Note: Note: <b>Samsung</b>	Implement wi Due to the lim password. Due to camera error message ELECTRONICS Tested Firmware Refer to SNB-7080 v1.10_1108 v1.21_1103	th ONVIF p nitation of 0 a FW issue, e on NVR si b Video Format H.264 M-JPEG 19 H.264 M-JPEG 10 MPEG4 M-JPEG 10 MPEG4 M-JPEG	DNVIF p users h ide.	rotoco ave to /ideo /h 1 1 1 1	Max Resolut 2048: 2048: 704: 704:	nera web tion <1536 <1536 <480	Audio 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          P       Remarks         Supported by



### NUUO version 1.3.0, Release date\_2012.5.8

Note:	PTZ: support	t zoom and	l focus.									
SNV-5010	v2.00_11072	H.264 MPEG4 M-JPEG		1	1280	x1024	1-way	-	-	Yes	-	
Note:	The frame ra 2.10_111227		stream	decrea	ase to the	e half if w	atching (	dual s	tream vid	eo. Camera	a vendor f	ix this issue in FV
SNV-7080	Refer to SND-7080	H.264 M-JPEG		1	2048	x1536	1-way	1/1	-	Yes	-	Supported by design
SNV-7080R	Refer to SND-7080	H.264 M-JPEG		1	2048	×1536	1-way	1/1	-	Yes	-	Supported by design
SNZ-5200	v1.05_11121	H.264 L6 MPEG4 M-JPEG		1	1280	x1024	1-way	1/1	Yes	Yes	-	
	TEC											
Device Name	Tested Firmware	Video Format		'ideo h	Max Resolu	tion		I/O Ch	PTZ	On-Edge Motion	UPnF	Remarks
SNC-3302	Refer to SNC-4302	H.264 M-JPEG		1	1920:	×1080	1-way	1/1	-	Yes	Yes	Supported by design
SNC-3342		H.264 M-JPEG		1	1600	×1200	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-5312IR	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-6312IRH	Refer to SNC-4302	H.264 M-JPEG		1	1920:	×1080	1-way	1/1	-	Yes	Yes	Supported by design
SNC-6332		H.264 M-JPEG		1	1600	×1200	1-way	1/1	-	Yes	Yes	Supported by design
SVS-3001		H.264 M-JPEG		1	720:	×480	1-way	1/1	Yes	Yes	Yes	Supported by design
Sony SOI	NY.											
Device Name		Video Format	Video Ch	Max Reso	olution	Audio	I/O Ch	PTZ	On-Edg Motion	e UPnP	Camera Search Tool	Remarks
	SNC-DH110	H.264 MPEG4 M-JPEG	1	128	30x960	-	-	-	Yes	-	Yes	Supported by design
	1.50.00 I	H.264 MPEG4 M-JPEG	1	192	0x1440	1-way	1/1	Yes	Yes	-	Yes	

13 / 13



SNC-DH220T	Refer to SNC-DH220	H.264 MPEG4 M-JPEG	1	1920	0x1440	1-way	1/1	Yes	Yes	-	Yes	Supported by design
SNC-EP520	1.40.00	H.264 MPEG4 M-JPEG	1	720	0x480	1-way	2/1	Yes	Yes	-	Yes	
SNC-EP521	1.42.00	H.264 MPEG4 M-JPEG	1	720	0x576	1-way	2/1	Yes	Yes	-	Yes	
SNC-EP550	Refer to SNC-ER550	H.264 MPEG4 M-JPEG	1	128	80x720	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	ration, u	users a	ire unabl	e to wat	ch live v	ideos o	n both I	NVR side ar	nd camera	side.
SNC-ER520	1.42.00	H.264 MPEG4 M-JPEG	1	720	0x480	1-way	2/1	Yes	Yes	-	Yes	
SNC-ER521	1.42.00	H.264 MPEG4 M-JPEG	1	720	0x576	1-way	2/1	Yes	Yes	-	Yes	
SNC-ER550	1.40.00	H.264 MPEG4 M-JPEG	1	128	80x720	1-way	2/1	Yes	Yes	-	Yes	
		H.264	1	1020	0x1080	1-way	2/1	Yes	Yes	-	Yes	
	1.51.00 For performa	MPEG4 M-JPEG nce conside					ch live v	ideos o	n both I	IVR side ar	d camera	side.
Note:		M-JPEG					ch live v	ideos o	n both M	IVR side ar	nd camera	side.
Note: Vista		M-JPEG	ration, u	users a		e to wat	ch live v	ideos o I/O Ch		VR side ar On-Edge Motion	UPnF	
Note: Vista	For performa	M-JPEG nce conside <b>Video</b>	ration, u	users a	are unabl	e to wat		1/0		On-Edge		P Remarks
Note: Vista	For performa	M-JPEG nce conside Video Format H.264	ration, i	ideo h	Max Resolut	e to wat	Audio	I/O Ch	PTZ	On-Edge Motion	UPnF	P Remarks
Note: Vista Vista Device Name VK2-1080VRD	For performa          For performa         Image: Constraint of the second secon	M-JPEG nce conside Video Format H.264 M-JPEG RD/VK2-2M	tration, t	ideo h 1	Max Resolut 1920> 1600>	e to wat tion <1080 <1200	Audio 1-way 1-way	<b>I/O</b> Ch 2/0 2/0	PTZ -	On-Edge Motion Yes Yes	UPnF Yes Yes	P Remarks
Note: Vista Device Name VK2-1080VRD	For performa Tested Firmware 2.2.64 2.2.64 VK2-1080V camera web	M-JPEG nce conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M RD/VK2-2M	ration, u t C PVRD: c	ideo h 1 1 con-edge	Max Resolut 1920> 1600> e motion	e to wat tion <1080 <1200 of video	Audio 1-way 1-way	<b>I/O</b> Ch 2/0 2/0 JPEG co	PTZ - odec wo	On-Edge Motion Yes Yes	UPnF Yes Yes stream 1	P Remarks
Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note:	For performa Tested Firmware 2.2.64 2.2.64 VK2-1080V camera web VK2-1080V	M-JPEG nce conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M prmat M-JPE H.264	ration, u t C PVRD: c	ideo h 1 1 con-edge	Max Resolut 1920> 1600> e motion	e to wat tion <1080 <1200 of videc disconne	Audio 1-way 1-way	<b>I/O</b> Ch 2/0 2/0 JPEG co	PTZ - odec wo	On-Edge Motion Yes Yes	UPnF Yes Yes stream 1	Remarks         is enabled on         one NVR and
Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note: Note:	For performa Tested Firmware 2.2.64 2.2.64 VK2-1080V camera web VK2-1080V configure for	M-JPEG nce conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M prmat M-JPE se H.264 MPEG4 H 264	ration, u t C PVRD: c	ideo h 1 1 camera nother.	Max Resolut 1920> 1600> e motion may be	e to wat tion <1080 <1200 of video disconne <576	Audio 1-way 1-way 9 with M- ected if u	I/O Ch 2/0 2/0 JPEG co isers co	PTZ - odec wo	On-Edge Motion Yes Yes rks only as format as	UPnF Yes Yes stream 1 H.264 on	Remarks         is enabled on         one NVR and
Note: Vista Device Name VK2-1080VRD VK2-2MPVRD Note: Note: VK2-540VRD	For performa Tested Firmware 2.2.64 2.2.64 VK2-1080V camera web VK2-1080V camera web 2.1.8-relea 2.1.8-relea	M-JPEG nce conside Video Format H.264 M-JPEG H.264 M-JPEG RD/VK2-2M ormat M-JPE se H.264 MPEG4 se H.264 MPEG4 se H.264 MPEG4 se Druck de termes Se H.264 Se Se S	ration, u ration, u c v c v c v c c c c c c c c c c c c c	ideo h 1 1 camera other. 1 1 camera iother.	Max Resolut 1920> 1600> e motion may be 704> 704>	e to wat tion (1080 (1200 of video disconne (576 (576	Audio 1-way 1-way with M- ected if u 1-way 1-way	I/O           2/0           2/0           JPEG co           users co           1/0           1/0	PTZ odec wo onfigure - Yes	On-Edge Motion Yes Yes rks only as format as Yes Yes	UPnF       Yes       Stream 1       H.264 on       Yes       Yes       Yes	Remarks         is enabled on         one NVR and

users change HTTP port to another number on camera web.



## NUUO version 1.3.0, Release date\_2012.5.8

 Note:
 All cameras: modifying parameter frequently may lead to camera shutdown due to slow CGI response.

 Note:
 All cameras: the port value we get is always 80 via UPnP search, which implies the cameras would be disconnected if users change HTTP port to another number on camera web.

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 15 / 15



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	
	Refer to	H.264	4	720x480	1-way	4/4	Yes	Yes	-	Supported by
VS8401 Zavio 7 A V	VS8801	MPEG4 M-JPEG		7200100	,	, ,				design
		M-JPEG Video	Video	Мах		1/0	PTZ	On-Edge Motion	UPnP	Remarks
Zavio ZAV	Tested	M-JPEG					PTZ Yes	On-Edge Motion Yes	<b>UPnP</b> Yes	Remarks
Zavio ZAV Device Name	Tested Firmware Refer to	M-JPEG Video Format H.264 MPEG4	Video Ch	Max Resolution	Audio	I/O Ch		Motion		Remarks Supported by
Zavio ZAV Device Name D5110 D5111	Tested Firmware Refer to D5111 MG.1.6.03P7_	M-JPEG Video Format H.264 MPEG4 M-JPEG H.264 MPEG4	Video Ch 1	Max Resolution 1280x1024	Audio	<b>I/O</b> Ch 2/2	Yes	Motion Yes	Yes	Remarks Supported by
Zavio ZAV Device Name D5110	Tested Firmware Refer to D5111 MG.1.6.03P7_ app7 MG.1.6.03P3_	M-JPEG Video Format H.264 MPEG4 M-JPEG H.264 MPEG4 MPEG4 MPEG4 MPEG4 MPEG4 MPEG4 MPEG4 MPEG4 MPEG4 M-JPEG H.264	Video Ch 1	Max           Resolution           1280x1024           1280x1024	Audio -	<b>I/O</b> 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

#### [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>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

Brickcom

# Brickcom

Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch		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 1.3.0, Release date\_2012.5.8

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	1	1280x800	1-way	-	-	Yes	Yes	Supported by design		
FCS-0031	1.0.0.35	M-JPEG H.264 MPEG4 M-JPEG	1	1280×800	1-way	-	-	Yes	Yes	design		
Note:	Not support on	ot support on-edge motion with MJPEG format, which is camera limitation.										
FCS-0040	Refer to WCS-0040	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-		Yes	Supported by design		
Note:	Not support on	-edge motic	on current	y 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.	oesn't work	properly s	ometimes, which	happens	s on car	nera'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	happens	on car	nera's c	own search to	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 motic	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	MJPEG Q I	Factor over 60 on	i camera v	web, be	ecause t	he video may	be broke	n due to camer		
FCS-5041	1.0.0.46	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/1	-	Yes	Yes			

19 / 19



FCS-5051		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	Image: M-JPEG       Image: M-JPEG         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 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					
RAM	1GB					
LAN Transmission Speed	10/100/1000 Mbj	ps (RJ45)				
WebClient	Internet Explorer 8 and later, Fi version)	ι.				
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 21 / 21



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. Visuately, E5017414, IP012204, IP0262, IVC6102, (New FW)

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 b					
		Mac OS X 10.6/10.7				
RAM	1GB	2GB				
User Interface	<ol> <li>HTTP Web browser - Internet Explorer 8 and later and Firefox 7.0.1</li> <li>NUUO client application program</li> </ol>					

# **Appendix**

#### Stream profile (updated)

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

Duend (Couries	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 1.3.0, Release date\_2012.5.8

		1		
Panasonic i-pro	CIF	2	CIF	1
others				
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
Videosec 1	QVGA	5	QQVGA	5
Videosec 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/IP 8352)	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

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

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



#### New Camera Support

Arecont		-										
Megaptel 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	Video	v	ídeo	Max			I/O		On-Edge		
Device Name	Firmware	Forma			Resolu	tion	Audio	Ch	PTZ	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



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
Certechnology	ua									
Dahua	IDC4050IR	M-JPEG			- /					design
IXC2050IR	Refer to	H.264	1	1920x1080	1-way	1/1	_	_	Yes	Supported b
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 b design
ISSM2063x	Refer to ISMC1063x	H.264 MPEG4 M-JPEG	1	704x480(N) 704x576(P)	1-way	4/0	Yes	-	Yes	Supported b 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 b design
IGC2050F	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported b design
Note:	Camera issue:	image may	be broker	apparently unde	er high pa	aramete	r settin	gs.		
IDC4050VR	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported b design
IDC4050VF	Refer to IDC4050IR	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	-	Yes	Supported b 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
CIN	B GY Inc.									
Q6035-Е СNB		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 b design
Q6034-E		H.264 M-JPEG	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported b design



	Tested	Video	Video	Max		τ/0		On-Edge		
Everfocus										
Note:	-	upported by e	kternal RS	-485 device.						
Note:	Setting prese	t point doesn'	t work pro	pperly.						
Note:	HP3300 serie	s: there may	be image	noise of dual stre	am, whic	ch can b	e obser	rved from the o	camera v	web as well.
HF3300P-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
HF3300N-W		H.264 M-JPEG	1	2048×1536	1-way	1/1	Yes	Yes	-	Supported by design
HF3300N	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	2048×1536	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	-	
HF3110P	V2.000 , Update 2011.10.22	H.264 M-JPEG	1	1280x960	1-way	1/1	Yes	Yes	-	
HF3110N		H.264 M-JPEG	1	1280x960	1-way	1/1	Yes	Yes	-	Supported by design
HDBW3300P		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	-	
HDB3300P		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design
HDB3300N		H.264 M-JPEG	1	2048×1536	1-way	2/1	Yes	Yes	-	Supported by design

Device Name	Tested Firmware	Video Format		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	26/26



Note:	Fix stream 1 as	s recording str	ream and	l fix stream 2 foi	r mobile d	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:	EVS200A/EVS2 PTZ is only sup			s recording strea -485 device.	am and fi	x strear	n 2 for	mobile client u	used.	
EVS410	1.0.14	H.264 MJPEG	4	704x480	1-way	4/1	Yes	Yes	Yes	
Note:	PTZ is only sup	ported by ext	ernal 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 fo	ocus only.								
Forenix FOR	INIX									
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



<b>F</b>		_						1	
AEP-Q2018HW -IP	H.264 M-JPEG	1	720x480	-	-	Yes	Yes	Yes	Supported by design
AEP-Q2026HW -IP	H.264 M-JPEG	1	720x480	-	-	Yes	Yes	Yes	Supported by design
AEP-Q2036HW -IP	H.264 M-JPEG	1	720x480	-	-	Yes	Yes	Yes	Supported by design
ASP-PTIR737- IP	H.264 M-JPEG	1	720x576	-	-	Yes	Yes	Yes	Supported by design
ASP-PTIR737- LA-IP	H.264 M-JPEG	1	720x576	-	-	Yes	Yes	Yes	Supported by design
ATCP-IRH503 0C	H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-IRH504 0C	H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-MH802	H.264 M-JPEG	1	1600x1200	-	1/1	-	Yes	Yes	Supported by design
ATCP-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



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	ΜΟΒΟΤΙΧ									
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	G									
	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	onnecting	with AC powe
Note:	I/O and MD is discontinued.	unstable, whi	ch is a kn	own issue report	ed by Sar	msung.	They w	on't do any ch	ange sind	ce 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	onnecting	with AC powe
Note:	I/O and MD is discontinued.	unstable, whi	ch is a kn	own issue report	ed by Sar	msung.	They w	on't do any ch	ange sind	ce 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	-	
		H.264 MPEG4	1	704x480	1-way	2/2	Yes	Yes	-	
	v1.24_110816	M-JPEG								
SNP-3120/V/ VH Note:		M-JPEG	r users cl	ick stop patrol b	utton.					



SN-IPC54/12 DN		H.264 M-JPEG	1	1920x1080	1-way	-	-	Yes	-	Supported by design 30 / 30
SN-IPC54/11 DN		H.264 M-JPEG	1	1280x720	1-way	-	-	Yes	-	Supported by design
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
Sunell	ELL									
Note:	All cameras: if synchronized.	configuring f	ixed fram	e rate on camera	a web, pa	ramete	r select	ion on NVR we	eb page v	von't be
Note:				camera parame please go to can			ution co	nfiguration. It	happens	on SNO-5080R
Note:	SPE-100 PTZ is same phenome			may not be stopp	bed after o	operati	ng. This	is camera FW	bug, we	can observe the
SPE-100	v1.19_110317	H.264 MPEG4 M-JPEG	1	704x480	1-way	1/1	Yes	Yes	-	
Note:	It's likely failed encountering t	l to query car		ameter in high re camera web.	solution o	configu	ration. I	It happens on	SNO-508	OR most. When
SNV-5080R	v1.00_110421	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	
SNV-5080		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	-	Supported by design
Note:	SNP-5200/520 protocol limita		d selectio	ons of PTZ and fo	cus in Liv	eView	is not sy	ynchronized w	ith came	ra web due to
Note:	SNP-5200/520	0H: not supp	ort Area	Zoom due to pro	tocol limi	tation.				
Note:		0H: voice cra		e video exported export with AVI fo		format	t, while	the audio of v	ideo file	is correctly
SNP-5200H	v1.02_110603	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-	
SNP-5200		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	4/2	-	Yes	-	Supported by design
Note:	The speed sele	ections of PTZ	and focu	is in LiveView is i	not synch	ronized	l with c	amera web du	e to prot	ocol limitation.
Note:	Not support Ar	ea Zoom due	to proto	col limitation.						
Note:	Voice cracks in choose to expo			th ASF format, w	hile the a	udio of	video fi	le is correctly	recorded	actually. Please
Note:	There is a cam FW 1.11_1111		that we o	annot get VBR/C	BR info to	o show	quality	or bit rate cor	rectly. Ple	ease upgrade to
Note:	This is POE car	nera, but the	device is	unstable withou	t AC powe	er conn	ection.	We suggest co	onnecting	with AC power.



NUUO version 1.3.0, Release date\_2012.5.8

								-		
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
		1	1	1					1	1

Note:

Do not support I/O due to camera FW limitation.

#### UDP



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



## NUUO version 1.3.0, Release date\_2012.5.8

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 by 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 by design
NVC4000-R40		H.264 MPEG4 M-JPEG	1	720x576	1-way	2/1	Yes	Yes	Yes	Supported by design
Note:				f configuring can e, please reboot			requent	ly. This is the k	known iss	sue from camer
Note:				if setting up high at the camera, ar					om came	ra vendor. Whe
Vivotek	encountering	, this issue, pre		it the camera, a		set up		inguration.		
Vivotek		, this issue, pie		a the camera, a		set up		inguration.		
Vivotek		, this issue, pic				set up		inguration.		
		Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
	Tested	Video	Video	Max		1/0		On-Edge	<b>UPnP</b> Yes	Remarks
Device Name	Tested Firmware	Video Format H.264 MPEG4	Video Ch 1	Max Resolution 1600x1200	Audio	I/O Ch	PTZ	On-Edge Motion		Remarks
Device Name FE8171V	Tested Firmware	Video Format H.264 MPEG4 M-JPEG	Video Ch 1	Max Resolution 1600x1200	Audio	I/O Ch	PTZ	On-Edge Motion		
Device Name FE8171V Note:	Tested Firmware 0100d De-wrap fund 0100c	Video Format H.264 MPEG4 M-JPEG ction is not int H.264 MPEG4 M-JPEG	Video Ch 1 egrated in 1	Max Resolution 1600x1200 this version.	Audio 1-way 1-way	I/O Ch 1/1	PTZ -	On-Edge Motion Yes	Yes	Supported by design
Device Name FE8171V Note: IP8133W	Tested Firmware 0100d De-wrap fund 0100c	Video Format H.264 MPEG4 M-JPEG ction is not int H.264 MPEG4 M-JPEG	Video Ch 1 egrated in 1	Max Resolution 1600x1200 this version. 1280x1024	Audio 1-way 1-way	I/O Ch 1/1	PTZ -	On-Edge Motion Yes	Yes	Supported by design

	release, please	elease, please upgrade to new camera FW then.									
IP8362	0100d	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/0	-	Yes		Supported by design	
VS8102	0202c2	H.264 MPEG4 M-JPEG	1	720x576	1-way	1/1	-	Yes	Yes		

32 / 32



# 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 PC Minimum Requirements		
CPU	Intel Core 2 Duo, 2.6GHz	
Display Card	OpenGL 2.0 and later	

33 / 33



NUUO version 1.3.0, Release date\_2012.5.8

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 - Internet Explorer 8 and later and Firefox 7.0.1</li> <li>NUUO client application program</li> </ol>	

# 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>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 with 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 program			