

## Release Version v2.4 (2010/9/2)

### New Features

1. **Support NUUO mobile client<sup>1</sup>**
  - iPhone iViewer
  - Blackberry (v2.4.1)
  - Android (coming up)
  - Mobile client (coming up)
2. **Stream profile**
  - Support connecting lower kbps stream in liveview
  - Three stream profiles: original, low, minimum
  - Brands support: Axis, Arecont, Mobotix, Panasonic, Sanyo, Sony, Vivotek, Zavio
3. **Support E-map on web liveview and remote liveviewer**
  - 10 layers of map
  - Camera and I/O indicator
  - Popup E-map on event
4. **Remote I/O solution**
  - Connect SCB-C31 with I/O Box C24/26/28
  - Record on input trigger
  - Configure input as an event; configure output as an action
5. **Camera search tool integration for some brands without UPnP protocol including ACTi, Arecont, Sony**
6. **Auto port-forwarding – save time in configuring port-forwarding<sup>2</sup>**
7. **Total recording space can be up to 16TB by connecting external storage to NV-4080S/4160S<sup>3</sup>**
8. **2ch license for NV-2020 to upgrade to 4ch capacity**

### System Improvement

1. [System] Before volume created, system will prevent users from choosing “always recording” and “Recording by schedule”. The check point is: users click the **Save** button after changing the recording mode
2. [System] Optimizing virtual memory management, which prevents memory virtual size overflow
3. [System] Extend the recycling time buffer on NV-4080S/4160S to avoid missing few seconds recording
4. [Save/Load Configuration] Support backup/restore POS and E-map configuration.

**Note:** If there is POS database existed in NVRmini, loading configuration with different POS application config is likely to make the original POS data unsearchable.

**Note:** In the condition of saved configuration is without E-map or POS settings, selecting loading configuration with E-map/POS settings will lead you get the default. The original E-map/POS settings (if any) are covered and untraceable.

5. [Camera] Support control Sanyo HD5400/HD5600 PTZ by joystick
6. [Camera] Support Panasonic BB-HCM527 PTZ function

### Bug Fixed

1. Fixed PTZ function bugs on Panasonic WV-NT304
2. Fixed the connection bugs on Panasonic WV-NP472
3. Fixed parameter configuration bug on StarDot video server
4. Remove invalid Sanyo model VCC-HD3300/VCC-HD3500

<sup>1</sup> Only cameras integrated with stream profile can be connected by mobile client

<sup>2</sup> Compatible with router with UPnP service function

<sup>3</sup> Compatible with Promise DAS DS4600; when connecting to DAS, the recording bitrate should be lower to 40Mbps

## New Camera Supported

1. ACTi: ACM4001, AMU9401, AMU9711, CAM5130, CAM5140, CAM5150, CAM6100, SED2100, TCM1231, TCM1232, TCM3511, TCM4101, TCM5312, TCM5601, TCM5611, TCM7411, TMU9811, TMU9911
2. Axis: P5534, Q1910, Q1910-E
3. **Basler**: BIP-640c, BIP-640c-dn, BIP-1000c, BIP-1000c-dn, BIP-1300c, BIP-1300c-dn, BIP-1600c, BIP-1600c-dn, BIP-D1000c-dn, BIP-D1300c-dn
4. Brickcom: CB-100Ae, CB-100Ap, FB-100Ae, FB-100Ap, FD-100Ae, WCB-100Ae, WFB-100Ae
5. HIKVision: DS-2CD7133-E, DS-2CD7153-E, DS-2CD733F-E, DS-2CD753F-E, DS-2CD793PFWD-E, DS-2CD863PF-E
6. Panasonic: BB-HCM547A, BL-C140A
7. Sony: SNC-CH240, SNC-DH140
8. **Videosec**: IBF-211, IDA-210, IP-206M, IS-240
9. Vivotek: FD8161, FD8361

## Known Issue

1. NVRmini doesn't support instant playback yet. When CMS connect to NVRmini, it cannot playback one minute before. (will fix it in v2.5)
2. After duplicate ImmerVision camera and choose ImmerVision PTZ mode, those channels will zoom in/out in the same way.
3. Cannot add new line in POS filter if the language is Korean. (will fix it in v2.5)
4. Cannot backup selected video spanning across one day if there is POS transaction. (will fix it in v2.4.1)
5. The event & action setting of NVRmini won't synchronize if multiple users login at the same time, and one of them changes the settings. To take effect, users need to refresh the page. (will fix it in v2.5)

**Example:** User A is watching liveview and find motion detection/input trigger; meanwhile, User B is modifying the configuration on event & action to disable this event, but User A is still seeing event trigger in liveview. The workaround is refreshing the page.

## Remark

1. HIKVision: for old-platform models, only FW 20100320 is acceptable; for new-platform models, FW 20100628 is compatible
2. Language Polish is removed from NV-4080 and NV-4160

## Appendix

### Stream profile

- 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
Arecont	half	3	half	1
Axis	CIF	5	QCIF	5
Mobotix	CIF	3	QCIF	2
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
Sanyo HD1, HD3, HD4	CIF~VGA	3	CIF~VGA	1

# NVRmini Release Note

NUUO version 2.4\_release date\_20100902

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
Vivotek 7000v2/8000	CIF	5	QCIF	2
Vivotek 7000v2/8000 (megapixel)	CIF	3	QCIF	3
Zavio	CIF	5	QCIF	3
Zavio (megapixel)	CIF	7	CIF	2

HD1: VCC-HD2500, VDC-HD3500

HD2: VCC-HD2100, VCC-HD2300, VDC-HD3100, VDC-HD3300

HD3: VCC-HD5400, VCC-HD5600

HD4: VCC-HD4600

## New Camera Support

### ACTi



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
ACM4001		MPEG4 M-JPEG	1	640x480	1-way	-	-	Yes	-	Yes	Supported by design
AMU9401	A1D-220-V3 .10.22-NB	MPEG4 M-JPEG	1	1280x1024	1-way	0/0	-	Yes	-	Yes	
AMU9711	A1D-220-V3 .10.22-NB	MPEG4 M-JPEG	1	1280x1024	1-way	0/0	-	Yes	-	Yes	Supported by design
CAM5130		MPEG4	1	720x480	1-way	1/1	-	Yes	-	Yes	Supported by design
CAM5140		MPEG4	1	720x480	1-way	1/1	-	Yes	-	Yes	Supported by design
CAM5150		MPEG4	1	720x480	1-way	1/1	-	Yes	-	Yes	Supported by design
CAM6100		MPEG4	1	720x480	-	2/2	Yes	Yes	-	Yes	Supported by design
SED2100		MPEG4	1	720x480	1-way	2/2	-	Yes	-	Yes	Supported by design
TCM1231	A1D-310-V4 .06.09-AC	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Yes	
TCM1232		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Yes	Supported by design
TCM3511	A1D-310-V4.06.00 - AC	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Yes	
TCM4101		H.264 MPEG4 M-JPEG	1	640x480	1-way	-	-	Yes	Yes	Yes	Supported by design
TCM5312		H.264 MPEG4 M-JPEG	1	1280x960	1-way	1/1	-	Yes	Yes	Yes	Supported by design

# NVRmini Release Note

NUUO version 2.4\_release date\_20100902

TCM5601	A1D-310-V4 .06.09-AC	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	-	Yes	Yes	Supported by design
TCM5611	A1D-310-V4 .06.09-AC	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	-	Yes	Yes	
TCM7411		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	-	Yes	Yes	Supported by design
TMU9811	A1D-310-V4 .07.10-NB	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	-	-	Yes	
TMU9911	A1D-310-V4 .07.10-NB	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	-	-	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
P5534	5.15.1	H.264 M-JPEG	1	1280x720	1-way	2/2	Yes	Yes	Yes	Supported by design
Q1910	5.06	H.264 M-JPEG	1	720x576	1-way	1/1	Yes	Yes	Yes	
Q1910-E		H.264 M-JPEG	1	720x576	1-way	1/1	Yes	Yes	Yes	Supported by design

## Basler



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
BIP-640c		H.264 MPEG4 M-JPEG	1	640x480	-	1/1	-	-	-	Tested by manufacturer
BIP-640c-dn		H.264 MPEG4 M-JPEG	1	640x480	-	1/1	-	-	-	Tested by manufacturer
BIP-1000c		H.264 MPEG4 M-JPEG	1	1024x768	-	1/1	-	-	-	Tested by manufacturer
BIP-1000c-dn		H.264 MPEG4 M-JPEG	1	1024x768	-	1/1	-	-	-	Tested by manufacturer
BIP-1300c		H.264 MPEG4 M-JPEG	1	1280x960	-	1/1	-	-	-	Tested by manufacturer
BIP-1300c-dn	BIP-1300c-dn-1.6-2	H.264 MPEG4 M-JPEG	1	1280x960	-	1/1	-	Yes	-	
Note:	On-Edge Motion: H.264 and M-JPEG.									
BIP-1600c		H.264 MPEG4 M-JPEG	1	1600x1200	-	1/1	-	-	-	Tested by manufacturer
BIP-1600c-dn		H.264 MPEG4 M-JPEG	1	1600x1200	-	1/1	-	-	-	Tested by manufacturer

# NVRmini Release Note

NUUO version 2.4\_release date\_20100902

BIP-D1000c-dn		H.264 MPEG4 M-JPEG	1	1024x768	-	1/1	-	-	-	Tested by manufacturer
BIP-D1300c-dn	BIP-D1300c-dn-1.6-1	H.264 MPEG4 M-JPEG	1	1280x960	-	1/1	-	Yes	-	

Note: On-Edge Motion: H.264 and M-JPEG.

## Brickcom



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
CB-100Ae	v3.0.2.4	MPEG4 M-JPEG	1	1280x800	1-way	-	-	-	Yes	Tested by manufacturer
CB-100Ap	v3.0.2.4	H.264 MPEG4 M-JPEG	1	1280x800	1-way	-	-	-	Yes	Tested by manufacturer
FB-100Ae	v3.0.2.3	MPEG4 M-JPEG	1	1280x800	1-way	1/0	-	-	Yes	Tested by manufacturer
FB-100Ap	v3.0.2.3	H.264 MPEG4 M-JPEG	1	1280x800	1-way	1/0	-	-	Yes	Tested by manufacturer
FD-100Ae	v3.0.2.3	MPEG4 M-JPEG	1	1280x800	1-way	1/0	-	-	Yes	Tested by manufacturer
WCB-100Ae	v3.0.2.4	MPEG4 M-JPEG	1	1280x800	1-way	-	-	-	Yes	Tested by manufacturer
WFB-100Ae	v3.0.2.3	MPEG4 M-JPEG	1	1280x800	1-way	1/0	-	-	Yes	Tested by manufacturer

## HIKVISION



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
DS-2CD7133-E	V2.0 100628	H.264	1	640x480	-	-	-	Yes	-	
DS-2CD7153-E	V2.0 100628	H.264	1	1600x1200	-	-	-	Yes	-	
DS-2CD733F-E	V2.0 100716	H.264	1	640x480	1-way	2/2	Yes	Yes	-	Tested by manufacturer
DS-2CD753F-E	V2.0 100628	H.264	1	1600x1200	1-way	2/2	Yes	Yes	-	Tested by manufacturer
DS-2CD793P FWD-E	V2.0 100628	H.264	1	704x576	1-way	2/2	Yes	Yes	No	Tested by manufacturer
DS-2CD863P F-E	V2.0 100628	H.264	1	1280x960	1-way	1/1	Yes	Yes	-	Tested by manufacturer

## Panasonic

# NVRmini Release Note

NUUO version 2.4\_release date\_20100902



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
BB-HCM547A	3.60R00	MPEG4 M-JPEG	1	640x480	1-way	2/1	Yes	Yes	Yes	
Note: The camera is tested by link, so some functions can't be verified.										
BL-C140A	3.51R01	MPEG4 M-JPEG	1	640x480	-	-	-	Yes	Yes	

## Sony



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
SNC-CH240	1.10.01	H.264 MPEG4 M-JPEG	1	1920x1440	1-way	1/2	-	Yes	Yes	Yes	
SNC-DH140	1.07.00	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/2	-	Yes	Yes	Yes	
Note: Motion detection will be turned off upon changing to maximum resolution. Remember to enable it in camera web.											

## Vidosec



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
IBF-211	5.0.2.3874	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	Yes	Yes	Yes	
IDA-210		H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	Yes	Yes	Yes	Tested by manufacturer
IP-206M	5.a.2.4031	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	-	-	Yes	Yes	
IS-240		H.264 MPEG4 M-JPEG	1	704x576	1-way	1/1	Yes	Yes	Yes	Tested by manufacturer
Note: To solve the disconnection problems on SXGA resolution with quality 99 and 100, please upgrade to the following FW, which is certified by manufacturer. IBP-211 and IDA-210: 5.0.2.4437; IP-206M and IS-240: 5.a.2.4441										

## VIVOTEK



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
FD8161	0100h	H.264 MPEG4 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	Supported by design

# NVRmini Release Note

NUUO version 2.4\_release date\_20100902

FD8361	0100d1	H.264 MPEG5 M-JPEG	1	1600x1200	1-way	1/1	-	Yes	Yes	
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