

Release Version 1.1.0 (2011/10)

Modules

Item	Version		
FW	NVR	NE-2020	01.01.0002.0054
		NE-2040	01.01.0004.0054
		NE-4080	01.01.0008.0054
		NE-4160	01.01.0016.0054
	Camera Package		01.01.0000.0054
Application	Install Wizard	1.0.0.20	
	Remote Live Viewer	2.7.1.3	
	Playback System	2.7.1.3	
	Backup System	2.7.1.3	
	Verification Tool	2.7.1.3	
	Offline License Tool	1.0.1.47	
Document	User manual	1.0.0	
	QSG	1.0.0	

NVRmini 2 NE-4080 and NE-4160 release!

New Features

- Installation Wizard**
 - Support activate IP license to have more camera capacity
- Dual stream**
 - CNB
 - Grundig
 - Pelco

Enhancement

- Add "Auto power-off notification" to log the system is turned off to protect the unit from damage when it's overheated.
- Enlarge the period of keeping video from 30 days to 365 days.
- Second stream of some cameras¹ is only available under certain circumstances, such as motion is disabled or total bitrate is low. Which implies NVR can receive second streaming from camera if the configuration is within restrictions. If it's not, NVR chooses a workaround to get live video to support the dual stream features.

Bug Fixed

- Fixed the multi-language bug when switching NEXT and BACK in Install Wizard.
- Fixed the issue that DHCP function doesn't work in express mode sometimes.
- Fixed the bug that it always displays channel 1 as adding searched video server and choosing other channels.
- Fixed Fine MD-D1200 bug that the status of DI and DO is interrupted by each other.
- Parameters of some IQeye cameras² can be saved successfully.
- CMS can trigger output device of NVRmini 2 properly.
- Fixed the bug that Arecont dual stream is likely disconnected in poor network environments.
- Fixed the bug that dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.

¹ Such as Basler, Brickcom, Panasonic and Sony. Please consult with camera vendors for details

² The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S

9. Motion detection of Sony CH/DH series cameras work with camera FW v1.30 and above.
10. Fixed the bug that connecting MJPEG dual stream of SANTEC cameras³ likely leads to camera malfunction.
11. Fixed the bug that system becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
12. The I/O status of server and liveviewer is synchronized without re-logging in.
13. Non-English words can be displayed correctly on mobile client.

New Camera Supported

1. Arecont: AV8365DN
2. Axis: P3346, P3346-V, P3346-VE, Q6034
3. Fine: TCP-1200AV, TCP-1300AM
4. **Grundig**: GCI-0735P, GCI-C0745P, GCI-H0503B, GCI-H0522V, GCI-H0602B, GCI-K0322V, GCI-K0503B, GCI-K0512W, GCI-K0523T
5. HIKVision: DS-6101HFI-IP
6. Panasonic: DG-SF334, WV-SW395
7. **Pelco**: D5118
8. SANTEC: SNC-6221MIR, SNC-6301M, SVS-1100
9. Sony: SNC-DH110/B, SNC-DH110/W, SNC-DH210/B, SNC-DH210/W, SNC-DH210T/B, SNC-DH210T/S
10. Truen: TCS-200, TCS-2000, TCS-300, TCAM-3XX (330/351/370), TCAM-530, TCAM-531, TCAM-531BIR, TCAM-540, TCAM-551
11. Videosec: ICS-13, ICS-20F, ID-20
12. Vivotek: VS8102, VS8801

Known Issue (will fix it coming version)

1. Fixed the issue that bitrate of Panasonic DG-SF334 cannot be modified.
2. Fixed the issue that system doesn't detect Eneo camera motion right as motion is triggering.

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	CIF~SXGA	0.1~10	CIF~SXGA	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
Fine	CIF	1~3	CIF	0.1~1.5
Grundig	QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10

³ SANTEC 1.3 megapixel and D1 cameras

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Honeywell	640x368	15	640x368	5
Mobotix	CIF	3	QCIF	2
NetworkCamera	CIF	10	CIF	4
Panasonic BB/BL	CIF	4	QCIF	2
Panasonic i-pro 3 megapixel	VGA	1	VGA	0.5
Panasonic i-pro others	CIF	2	CIF	1
Pelco	CIF~D1	0.1~10	CIF~D1	0.1~10
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
TRUEN	CIF~Full D1	0.1~10	CIF~Full D1	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	CIF	5	CIF	2
Vivotek 7000v2/8000 (2 Mega)	CIF	3	QCIF	3
Vivotek 7000v2/8000 (IP83XX)	CIF	3	CIF	1
Vivotek 8000 (VS series)	QCIF~D1	0.1~10	QCIF~D1	0.1~10
Zavio	CIF	5	QCIF	3
Zavio (Mega)	CIF	7	CIF	2

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

Sanyo HD1: VCC-HD2500, VDC-HD3500

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

Sanyo HD3: VCC-HD5400, VCC-HD5600

Sanyo HD4: VCC-HD4600

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

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

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

[http://support.nuuo.com/mediawiki/index.php/NVRmini supported cameras on mobile clients](http://support.nuuo.com/mediawiki/index.php/NVRmini_supported_cameras_on_mobile_clients)

New Camera Support

Arecont

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Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Camera Search Tool	Remarks
AV1315	65191	M-JPEG H.264	1	1280x1024	-	-	-	Yes	-	Yes	

AXIS



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
P3346	5.20	H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	Yes*	
P3346-V		H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	Yes	Supported by design
P3346-VE		H.264 M-JPEG	1	2048x1536	1-way	1/1	Yes	Yes	Yes	Supported by design

Note: P3343, P3344 and P3346 series cameras support digital PTZ only.

Q6034	5.20.3	H.264 M-JPEG	1	640x480	1-way	2/2	Yes	Yes	Yes	*link
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FINE



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
TCP-1200AV	V1.0.26_F	H.264 M-JPEG	1	640x480	1-way	-	-	Yes	-	
TCP-1300AM	V1.0.26_F	H.264 M-JPEG	1	1280x1024	1-way	-	-	Yes	-	

Grundig

FOR A GOOD REASON
GRUNDIG

Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
GCI-0735P		H.264 MPEG4 M-JPEG	1	720x576	1-way	4/1	Yes	Yes	Yes	Supported by design
GCI-C0745P	720110412NS	H.264 M-JPEG	1	720x576	1-way	4/1	Yes	Yes	Yes	
GCI-H0503B	720110422NS	H.264 MPEG4 M-JPEG	1	1280x960	1-way	1/1	-	Yes	Yes	
GCI-H0522V		H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	Supported by design

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GCI-H0602B		H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	Supported by design
GCI-K0322V	720110413NS	H.264 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	
GCI-K0503B		H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	Supported by design
GCI-K0512W		H.264 MPEG4 M-JPEG	1	1920x1080	-	1/1	-	Yes	Yes	Supported by design
GCI-K0523T		H.264 MPEG4 M-JPEG	1	1920x1080	1-way	1/1	-	Yes	Yes	Supported by design

Note: With HW restrictions, the video @ H.264 with TCP protocol is not smooth in the conditions of high resolution, fps and bitrate. We recommend to lower bitrate to 4000.

HIKVision



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
DS-6101HFI-IP	V2.0 101112	H.264	1	704x576	-	1/1	-	Yes	-	

Panasonic



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
DG-SF334	1.03 1.05	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-	Yes	-	

Note: Disable H.264 and MPEG4 will get MJPEG stream playing more smoothly.

WV-SW395		H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	Yes	Yes	-	Supported by design
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Pelco



by Schneider Electric


Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
D5118	Software Version : 1.6.13.9310-A 1.4657 Hardware Version : 9310-A1.1-10 345	H264 JPEG	1	1280x960	-	-	Yes	-	-	

Note: Do not support to "clear all" preset points.

SANTEC

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Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
SNC-6221MIR	5.2.2	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Supported by design
SNC-6301M	5.2.2	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	-	Yes	Yes	Supported by design
SVS-1100	1.1.8	H.264 MPEG4 M-JPEG	1	720x576	1-way	2/2	Yes	Yes	Yes	
Note:	1.3 megapixel cameras: frame rate of MJPEG format is not synchronized as camera actually sends, for example, we set fps to 5 fps, but the video is 3 fps. This issue is fixed in camera FW v5.2.6.									
Note:	1.3 megapixel and 3 megapixel cameras: with HW restrictions, the video @ H.264 with TCP protocol is not smooth in the conditions of high resolution, fps and bitrate.									

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-DH110	1.27.02	H.264 MPEG4 M-JPEG	1	1280x960	-	-	-	Yes	-	Yes	
SNC-DH210		H.264 MPEG4 M-JPEG	1	2048x1536	-	-	-	Yes	-	Yes	Supported by design
SNC-DH210T	1.27.00	H.264 MPEG4 M-JPEG	1	2048x1536	-	-	-	Yes	-	Yes	

TRUEN



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
TCS-200	Enc: V1.104A-035	H.264	1	720x576	1-way	2/2	Yes	Yes	-	
TCS-2000	Enc: V1.103C-005	H.264 MJPEG	1	1920x1080	1-way	2/2	Yes	Yes	-	
TCS-300	Enc: V1.103C-005	H.264 MJPEG	1	720x576	1-way	2/2	Yes	Yes	-	
TCAM-330		H.264 MJPEG	1	720x576	1-way	0/0	Yes	Yes	-	Supported by design
TCAM-351		H.264 MJPEG	1	720x576	1-way	0/0	Yes	Yes	-	Supported by design
TCAM-370	Enc: V1.103C-005	H.264 MJPEG	1	720x576	1-way	0/0	Yes	Yes	-	

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Note:	Do not support NTSC on TCAM-3XX (330,351,370).									
TCAM-530	Enc: V1.103C-005	H.264 MJPEG	1	1920x1280	1-way	1/1	-	Yes	-	
TCAM-531	Enc: V1.103C-005	H.264 MJPEG	1	1280x960	1-way	1/1	-	Yes	-	
TCAM-531BIR		H.264 MJPEG	1	1280x960	1-way	1/1	-	Yes	-	Supported by design
TCAM-540	Enc: V1.103C-006	H.264 MJPEG	1	1920x1280	1-way	1/1	-	Yes	-	
Note:	Get severe broken image at the highest resolution 1920x1280, which will be improved in future new camera FW. (approx. three months later)									
TCAM-551		H.264 MJPEG	1	1280x960	1-way	1/1	-	Yes	-	Supported by design
Note:	All cameras: The video @ H.264 with TCP protocol is not smooth in the conditions of high resolution, fps and bitrate, which will be improved in future camera FW. (approx. three months later)									

Videosec



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
ICS-13	CCD-cameraF w-100811P et20110215N S	H.264 MPEG4 M-JPEG	1	1280x960	1-way	1/1	-	Yes	-	
ICS-20F	et20110215A NS	MJPEG H2.64	1	1920x1080	1-way	1/1	-	Yes	Yes	
Note:	With HW restrictions, the video @ H.264 with TCP protocol is not smooth in the second and third high resolution.									
ID-20	et20110215A NS	MJPEG H2.64	1	1920x1080	1-way	-	-	Yes	Yes	
Note:	With HW restrictions, the video @ H.264 with TCP protocol is not smooth in the second and third high resolution.									

VIVOTEK



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
VS8102		H.264 MPEG4 M-JPEG	1	720x576	1-way	1/1	-	Yes	Yes	Supported by design
VS8801	0100h	H.264 MPEG4 M-JPEG	8	720x480	1-way	8/8	Yes	Yes	-	*link

Visit NUUO website for full supporting list:

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<http://www.nuuo.com/product.php?id=13&sub=4>

Release Version 1.0.0 (2011/7)

Modules

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		NE-2040	01.00.0004.0047
	Camera Package		01.00.0000.0047
Application	Installation Wizard		1.0.0.12
	Remote Liveviewer		2.6.1.4
	Playback System		2.6.1.4
	Backup System		2.6.1.4
	Verification Tool		2.6.1.4
	Offline Tool		1.0.1.37
Document	User manual		1.0.0
	QSG		1.0.0

Improvement in NVRmini 2

NVRmini 2 is the next generation of NVRmini, and there are some different hardware and software designs. Take two main features for example.

1. Total throughput of 2bay devices doubles from 20Mbps to 40Mbps
2. NVRmini 2 offers camera package; with mechanism implementation, we can deliver new camera support more quickly and frequently to fulfill more requests

Known Issue (Bug fixed in 1.1.0)

1. Parameters of some IQeye cameras⁴ can't be saved successfully.
2. CMS cannot trigger output device of NVRmini 2 properly.
3. Arecont dual stream is likely disconnected in poor network environments.
4. Dual stream function of Brickcom, Fine and NetworkCamera cameras doesn't work with mobile client releasing in April.
5. Motion detection of Sony CH/DH series cameras doesn't work with camera FW v1.30 and above.
6. Connecting MJPEG dual stream of SANTEC cameras⁵ likely leads to camera malfunction.
7. System becomes abnormal if Zavio cameras which enable motion detection connect and disconnect frequently.
8. The I/O status of server and liveviewer may not be synchronized without re-logging in.
9. Non-English words display in scratch on mobile client.

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.



Camera Package
Potential Risk.xls

⁴ The following IQeye models are with this bug in previous version: IQ040S, IQ041S, IQ042S, IQ540S, IQ541S, IQ542S, IQD30S, IQD31S, IQD40S, IQD41S, IQD42S

⁵ SANTEC 1.3 megapixel and D1 cameras