

## New Features

1. Enhance live view / playback function
  - Support up to 128 channels live display on multiple monitors
  - Great diversity of live-viewing layouts
  - Support multiple views (duplicate channels for the same camera). Combined with digital PTZ, users are allowed to enlarge different spots and view them in different channels without failing to record the whole view
  - Support auto scan function
  - Show event log on the time line of video record, easy to search video with events
2. Support **Digital Watermark** to prevent recorded video files/snapshots from being tampered
3. Support DDNS service
4. Support SMTP port for mail service
5. Support Arecont UDP protocol and H.264 codec
6. Support Panasonic i-pro series and BL-series motion detection

## System Improvement

1. [Browser] Compatible with **Internet Explorer 8**
2. [Camera Search] Mark the inserted cameras in search result
3. [Event & Action] Activation period of event can cover two days e.g. from 22:00 to 08:00
4. [Event & Action] Enhance disk status event, to distinguish abnormal disk status and exhausted disk space
5. [Event & Action] Add new system event "Power-on Notification" for recording the time of power turning on. Ex: Send E-mail when power resumes after power loss
6. [RAID Management] When there is an invalid volume, users can't do anything but deleting the invalid volume
7. [NVR Log] Record playback access information, including access time, playback video channels and time frame
8. [Load Configuration] Keep user account and privilege after uploading to default setting
9. [System Upgrade] Files in My Network Place are selectable on UI
10. [Live View/Playback] Tool tips for each button
11. [Install Wizard] Combine install wizard configure with install wizard. Before searching, users have no need to choose network interface when there are multiple network cards installed on remote PC

## Bug Fixed

1. OSD can be displayed on video with H.264 compression format
2. Fixed the bug that bandwidth of SONY camera is fixed at 2Mbps automatically
3. Fixed the audio bug on Mobotix camera

## New Camera Supported

1. ACTi: ACD2000Q, ACM1511, ACM3011, ACM3511, ACM4000, ACM4201, ACM8201, ACM8211, TCM4301, TCM5311
2. Arecont: AV1355, AV3155, AV5155, AV8365
3. Axis: M3014, P1311, P1344, P3343, P3343-V, P3343-VE, P3344, P3344-V, P3344-VE, Q6032-E, Q7404
4. D-Link: DCS-1100, DCS-1130, DCS-6410, DCS-7510
5. **Eneo**: GLC-1401, GLC-1601, GLC-1602H, GLD-1401, GLD-1501, GLS-2101
6. Mobotix: Q24-Basic, Q24-Sec
7. Panasonic: DG-NF282, DG-NF302, DG-NP240, DG-NP244, DG-NP304, DG-NS950, DG-NS954, DG-NW960, DG-NW964, WV-NF302, WV-NP304, WV-NP502, WV-NW502S
8. **Samsung**: SNC-B2315, SNC-B5395, SNC-6225, SNC-7225, SNC-7478, SNC-M300
9. **Toshiba**: IKWB21A, IKWB70A, IKWD01A
10. Vivotek: FD7130, IP7130, IP7154, IP7160, IP7161, IP7330, PZ7111, PZ7121, PZ7131, SD7313, SD7323

# NVRmini Release Note

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11. Zavio: B5110, B6110, D520E, D6111, F3100, F3105, F5100, F5105, F5110, F5115, F520E, F731E, P5110, P5115

## Appendix

### ACTi



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
<b>ACD2000Q</b>	A4Q-220-V3 .02.04-AC	MPEG4 M-JPEG	4	720x480	One-way	2/2	Yes	Yes	No	
<b>ACM1511</b>		MPEG4 M-JPEG	1	1280x1024	One-way	0/0	No	Yes	No	Supported by design
<b>ACM3011</b>		MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	No	Supported by design
<b>ACM3511</b>		MPEG4 M-JPEG	1	1280x1024	One-way	0/0	No	Yes	No	Supported by design
<b>ACM4000</b>		MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	No	Supported by design
<b>ACM4201</b>		MPEG4 M-JPEG	1	1280x1024	One-way	0/0	No	Yes	No	Supported by design
<b>ACM8201</b>	A1D-220-V3 .10.22-AC	MPEG4 M-JPEG	1	1280x1024	One-way	1/1	Yes	Yes	No	Supported by design
Note:	A1D-220-V3.09.14-AC: There is problem at 160x112 resolution.									
<b>ACM8211</b>	A1D-220-V3 .09.14-AC	MPEG4 M-JPEG	1	1280x1024	One-way	1/1	Yes	Yes	No	
<b>TCM4301</b>	A1D-310-V4 .05.13-AC	MPEG4 M-JPEG H.264	1	1280x1024	One-way	0/0	No	Yes	No	Supported by design
<b>TCM5311</b>	A1D-310-V4 .05.13-AC	MPEG4 M-JPEG H.264	1	1280x960	One-way	1/1	No	Yes	No	
Note:	ACD / ACM series cameras do not support FW 3.11.11.									
Note:	Only <b>two</b> I/O are shown on the interface as adding <b>one</b> channel on devices with I/O function.									

### Arecont



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
<b>AV1355</b>	65130	M-JPEG H.264	1	1280x1024	No	0/0	No	Yes	No	Supported by design
<b>AV3155</b>	65130	M-JPEG H.264	1	2048x1536	No	0/0	No	Yes	No	
<b>AV5155</b>	65130	M-JPEG H.264	1	2560x1600	No	0/0	No	Yes	No	
<b>AV8365</b>	65026	M-JPEG H.264	4	1600x1184	No	0/0	No	Yes	No	Supported by design

### Axis



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remark
<b>M3014</b>		M-JPEG H.264	1	1280x800	No	0/0	No	Yes	Yes	Supported by design
<b>P1311</b>	5.01	MPEG4 M-JPEG H.264	1	640x480	One-way	1/1	No	Yes	Yes	
<b>P1344</b>		M-JPEG H.264	1	1280x800	One-way	1/1	No	Yes	Yes	Supported by design
<b>P3343</b>		M-JPEG	1	800x600	One-way	1/1	Yes	Yes	Yes	Supported

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		H.264								by design
<b>P3343-V</b>		M-JPEG H.264	1	800x600	One-way	1/1	Yes	Yes	Yes	Supported by design
<b>P3343-VE</b>		M-JPEG H.264	1	800x600	One-way	1/1	Yes	Yes	Yes	Supported by design
<b>P3344</b>	5.06	M-JPEG H.264	1	1280x800	One-way	1/1	Yes	Yes	Yes	
<b>P3344-V</b>	5.06	M-JPEG H.264	1	1280x800	One-way	1/1	Yes	Yes	Yes	
<b>P3344-VE</b>	5.06	M-JPEG H.264	1	1280x800	One-way	1/1	Yes	Yes	Yes	
Note:	P3343 and P3344 series cameras support digital PTZ only.									
<b>Q6032-E</b>	5.05	M-JPEG H.264	1	704x576	No	0/0	Yes	Yes	Yes	
<b>Q7404</b>	5.02	M-JPEG H.264	4	768x576	One-way	1/1	Yes	Yes	Yes	

## D-Link



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
<b>DCS-1100</b>	1.00	MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	Yes	Supported by design
<b>DCS-1130</b>	1.00	MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	Yes	Supported by design
<b>DCS-6410</b>	1.00	MPEG4 M-JPEG	1	704x576	One-way	2/1	No	Yes	Yes	Supported by design
<b>DCS-7510</b>	1.00	MPEG4 M-JPEG	1	704x576	One-way	2/1	No	Yes	Yes	Supported by design

## Eneo

Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
<b>GLC-1401</b>	1.42	MPEG4 M-JPEG	1	720x576	One-way	1/0	Yes	Yes	Yes	Supported by design
<b>GLC-1601</b>	1.43	MPEG4 M-JPEG	1	720x576	One-way	1/0	Yes	Yes	Yes	
<b>GLC-1602 H</b>	1.40	M-JPEG	1	720x576	One-way	1/0	Yes	Yes	Yes	Supported by design
<b>GLD-1401</b>	1.40	MPEG4 M-JPEG	1	720x576	No	1/0	No	Yes	Yes	
<b>GLD-1501</b>	1.43	MPEG4 M-JPEG	1	720x576	One-way	1/0	No	Yes	Yes	Supported by design
<b>GLS-2101</b>	1.45	MPEG4 M-JPEG	1	720x576	One-way	1/0	Yes	Yes	Yes	

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

## Mobotix



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remark
<b>Q24-Basic</b>		M-JPEG MxPEG	1	640x480	One-way	0/0	No	Yes	No	Supported by design
<b>Q24-Sec</b>	MX-V4.0.1.7	M-JPEG MxPEG	1	2048x1536	One-way	0/0	No	Yes	No	

## Panasonic



PSS

Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
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DG-NF282		MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	No	Supported by design
DG-NF302	1.5	MPEG4 M-JPEG	1	1280x960	One-way	0/0	No	Yes	No	Supported by design
DG-NP240		MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	No	Supported by design
DG-NP244		MPEG4 M-JPEG	1	640x480	One-way	0/0	No	Yes	No	Supported by design
DG-NP304	1.5	MPEG4 M-JPEG	1	1280x960	One-way	0/0	No	Yes	No	Supported by design
DG-NS950	1.5	MPEG4 M-JPEG	1	640x480	One-way	0/0	Yes	Yes	No	Supported by design
DG-NS954	1.5	MPEG4 M-JPEG	1	640x480	One-way	0/0	Yes	Yes	No	Supported by design
DG-NW960	1.5	MPEG4 M-JPEG	1	640x480	One-way	0/0	Yes	Yes	No	Supported by design
DG-NW964	1.5	MPEG4 M-JPEG	1	640x480	One-way	0/0	Yes	Yes	No	Supported by design
WV-NF302	1.40E4_1.0 6	MPEG4 M-JPEG	1	1280x960	One-way	0/0	No	Yes	No	
WV-NP304	1.50E5_1.0 6	MPEG4 M-JPEG	1	1280x960	One-way	0/0	No	Yes	No	
WV-NP502	1.00	MPEG4 M-JPEG H.264	1	2048x153 6	One-way	0/0	No	Yes	No	
WV-NW50 2S	1.00	MPEG4 M-JPEG H.264	1	2048x153 6	One-way	0/0	No	Yes	No	

## Samsung



ELECTRONICS

Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
SNC-B231 5	2.01	MPEG4 M-JPEG	1	720x576	One-way	2/2	No	Yes	No	
SNC-B539 5	2.10	MPEG4 M-JPEG	1	720x576	One-way	2/2	No	Yes	No	
SNC-6225	1.01	MPEG4 M-JPEG	1	720x576	One-way	2/1	Yes	Yes	No	
SNC-7225	1.01	MPEG4 M-JPEG	1	720x576	One-way	2/1	Yes	Yes	No	Supported by design
SNC-7478	1.01	MPEG4 M-JPEG	1	720x576	One-way	8/4	Yes	Yes	No	
SNC-M300	2.11	MPEG4 M-JPEG	1	2048x153 6	One-way	2/2	No	Yes	No	

## Toshiba

# TOSHIBA

Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
IKWB21A	2.09.E.200. 121	M-JPEG	1	1280x960	Yes	0/0	Yes	No	No	
IKWB70A	0100e	MPEG4 M-JPEG	1	640x480	One-way	1/1	No	Yes	Yes	
IKWDO1A	0100a	MPEG4 M-JPEG	1	640x480	One-way	1/1	No	Yes	Yes	

## Vivotek



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
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<b>FD7130</b>	0100e	MPEG4 M-JPEG	1	640x480	No	0/0	No	Yes	Yes	
<b>IP7130</b>	0100c	MPEG4 M-JPEG	1	640x480	One-way	1/1	No	Yes	Yes	
<b>IP7154</b>	0100b	MPEG4 M-JPEG	1	640x480	One-way	1/1	Yes	Yes	Yes	
<b>IP7160</b>	0101b	MPEG4 M-JPEG	1	1600x1200	One-way	1/1	No	Yes	Yes	
<b>IP7161</b>		MPEG4 M-JPEG	1	1600x1200	One-way	1/1	No	Yes	Yes	Supported by design
<b>IP7330</b>		MPEG4 M-JPEG	1	640x480	No	1/0	No	Yes	Yes	Supported by design
<b>PZ7131</b>	0100b	MPEG4 M-JPEG	1	640x480	One-way	1/1	Yes	Yes	Yes	
<b>PZ71X1</b>		MPEG4 M-JPEG	1	704x576	One-way	1/1	Yes	Yes	Yes	Supported by design
<b>SD73X3</b>		MPEG4 M-JPEG	1	704x576	One-way	4/1	Yes	Yes	Yes	Supported by design

Note: MPEG4: Unable to connect through HTTP.

Note: Audio: All cameras don't support AAC audio codec, but GSM-AMR.

## Zavio



Device Name	Tested Firmware	Video Format	Video Channels	Max Resolution	Audio	I/O Channels	PTZ Support	On-Edge Motion	UPnP	Remarks
<b>B5110</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>B6110</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>D520E</b>	LM.1.6.16.03	MPEG4 M-JPEG	1	640x480	One-way	1/1	No	Yes	Yes	Supported by design
<b>D6111</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>F3100</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	0/0	No	Yes	Yes	Supported by design
<b>F3105</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	0/0	No	Yes	Yes	Supported by design
<b>F5100</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>F5105</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>F5110</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>F5115</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	No	Yes	Yes	Supported by design
<b>F520E</b>	LM.1.6.16.03	MPEG4 M-JPEG	1	640x480	One-way	1/1	No	Yes	Yes	Supported by design
<b>F731E</b>	LM.1.6.16.03	MPEG4 M-JPEG	1	640x480	One-way	1/1	No	Yes	Yes	Supported by design
<b>P5110</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	Yes	Yes	Yes	Supported by design
<b>P5115</b>	MG.0.6.01_C1	MPEG4 M-JPEG H.264	1	1280x1024	One-way	1/1	Yes	Yes	Yes	