

Release Version 2.9 (2012/3/19)

Modules

Item	Version		
FW	NVR	NV-2020	NVR: 02.09.0010.6056
		NV-2040	NVR: 02.09.0000.6056
		NV-4080S	NVR: 02.09.0006.6056
		NV-4160S	NVR: 02.09.0008.6056
Application	Install Wizard	02.05.2250.00 (no update)	
	Remote Live Viewer	2.9.0.1	
	Playback System	2.9.0.1	
	Backup System	2.9.0.1	
	Verification Tool	2.9.0.1	
	Offline License Tool	1.0.1.47	
Document	User manual	2.9	
	QSG	2.8 (no update)	

New Features

- Support Vivotek fisheye camera FE8171V de-warp function.
 - Original
 - Rectilinear mode
 - Full-view panorama mode
 - Dual-view panorama mode
- Add continuous zoom function on Panasonic DG-SC385 and WV-SC385.

Bug Fixed

- Synchronize the zoom in/out scale of Panasonic DG-SC385 and WV-SC385 with camera web.
- Fixed 2nd~4th channel connection issue on Arecont 4-ch models.
- Fixed the issue that Axis 210A may be disconnected after long time connection.
- Fixed the issue that motion detection of Vivotek cameras with new camera FW doesn't work in the conditions of selecting more than 3 motion detect areas.
- Correct the format of "Last recycle time/range" for NCS Client.
- Correct the information of "Recording days on disk" for NCS Client.

New Camera Supported

- ACTi: KCM5111, KCM5211, KCM5211E, KCM5311, KCM5311E, KCM7111, KCM7211
- Arecont: AV1115, AV1125, AV2115, AV2125, AV3115, AV3125, AV5115, AV5125, AV10115, AV20185DN, AV20365DN
- Panasonic: WV-SC384, WV-SF132, WV-SF135, WV-SF342, WV-SF346, WV-SW152/M, WV-SW155/M, WV-SW352, WV-SW355
- Samsung: SNB-7000, SND-7080, SNP-3301, SNP-3370, SNV-3120, SNV-5010, SNV-7080, SNV-7080R, SNZ-5200
- Vista**: VK2-1080VRD, VK2-2MPVRD, VK2-540VRD, VK2-600PTZ¹, VK2-VGAVFD
- Vivotek: FD8133V, FD8134V, FD8162, FD8361L, FD8362, FD8362E, IP8151P, IP8162, IP8162P, IP8331, MD7530, MD7560X, MD8562, PZ81x1, PZ81x1W, SD8362E, SD83x1E, SD83x2E, SD83x3E, VS8401
- Zavio: D5110, D5111, F7110, F7115, F7210

¹ The operation of setting preset point is special because setting password is a must. We suggest users finish preset point settings on camera web.

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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	Cameras	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	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, IXC8050IR, IVC5050xx,IVP5055xx, IDP5055xx,IXP3055VR	QVGA~D1	0.1~10	QVGA~D1	0.1~10
Dahua (Others)		CIF	5	CIF	2
Dahua	HF3211P	D1~1080p	0.1~10	D1~1080p	0.1~10
Dynacolor		QCIF~Full HD	0.1~10	QCIF~Full HD	0.1~10
Eneo	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
Fine		CIF	1~3	CIF	0.1~1.5
Forenix		CIF	1~3	CIF	0.1~0.5
Grundig		QCIF~FullHD	0.1~10	QCIF~FullHD	0.1~10
Honeywell		640x368	15	640x368	5
Mobotix		CIF	3	QCIF	2
NetworkCamera		CIF	10	CIF	4
Panasonic BB/BL		CIF	4	QCIF	2
Panasonic i-pro 3 megapixel		VGA	1	VGA	0.5
Panasonic i-pro others		CIF	2	CIF	1
Pelco		CIF~D1	0.1~10	CIF~D1	0.1~10
Samsung	SNB-1000, SNB-5000, SND-1010, SND-5080/F, SNO-5080R, SNP-3120/V/VH, SNP-3430H, SNP-5200, SNP-5200H, SNV-5080, SNV-5080R, SPE-100	CIF	6	CIF	2
Samsung	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 _{2/8}

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	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 server)		VGA~D1	1~3	VGA~D1	0.3~0.8
Sanyo HD1, HD3, HD4	HD1: VCC-HD2500, VDC-HD3500 HD3: VCC-HD5400, VCC-HD5600 HD4: VCC-HD4600	CIF~VGA	3	CIF~VGA	1
Sanyo HD2	HD2: VCC-HD2100, VCC-HD2300, VDC-HD3100, VDC-HD3300	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
UDP		QVGA~VGA	0.1~10	QVAG~VGA	0.1~10
Vidosec	IBF-211, IDA-210, IP-206M, IS-240	QVGA	5	QQVGA	5
Vidosec	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, VK2-VGAVFD	CIF	5	CIF	2
Vivotek 7000v2/8000 (General)		CIF	5	CIF	2
Vivotek 7000v2/8000 (2 Mega)		CIF	3	QCIF	3
Vivotek 8000 (VS series)		QCIF~D1	0.1~10	QCIF~D1	0.1~10
Vivotek 8000	IP8330, IP8332, IP8352	CIF	3	CIF	1
Vivotek 8000	IP8362	CIF	5	CIF	3
Vivotek	FD8162, FD8362, FD8362E, IP8162, MD8562	CIF	8	QCIF	6
Vivotek	SD8362E	CIF	6	QCIF	6
Vivotek	IP8331, MD7530, MD7560X, PZ81x1, PZ81x1W, SD8313E, SD8312E, SD8311E	CIF	3	QCIF	3
Zavio		CIF	5	QCIF	3
Zavio (Mega)		CIF	7	CIF	2
Zavio (2 Mega)	F7210	640x480	4	640x480	1.3


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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
KCM5111	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	-	Yes	-	Yes	
Note:	On-edge motion: H.264 and MPEG4.										
KCM5211	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	Yes	Yes	-	Yes	
Note:	On-edge motion: H.264 and MPEG4.										
KCM5211E	Refer to KCM5211E	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	Yes	Yes	-	Yes	Supported by design
Note:	On-edge motion: H.264 and MPEG4.										
KCM5311	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	2/2	Yes	Yes	-	Yes	
Note:	On-edge motion: H.264 and MPEG4.										
KCM5311E	Refer to KCM5311E	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	2/2	Yes	Yes	-	Yes	Supported by design
Note:	On-edge motion: H.264 and MPEG4.										
KCM7111	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	-	Yes	-	Yes	
Note:	On-edge motion: H.264 and MPEG4.										
KCM7211	A1D-311-V5 .04.07-AC	H.264 MPEG4 M-JPEG	1	2032x1920	1-way	2/2	Yes	Yes	-	Yes	
Note:	On-edge motion: H.264 and MPEG4.										

Arecont

											
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	
AV1125	Refer to AV1115	H.264 M-JPEG	1	1280x1024	-	1/1	-	Yes	-	Yes	Supported by design

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AV2115	Refer to AV2125	H.264 M-JPEG	1	1920x1056	-	1/1	-	Yes	-	Yes	Supported by design
AV2125	65201	H.264 M-JPEG	1	1920x1056	-	1/1	-	Yes	-	Yes	
AV3115	65201	H.264 M-JPEG	1	2048x1536	-	1/1	-	Yes	-	Yes	
AV3125	Refer to AV3115	H.264 M-JPEG	1	2048x1536	-	1/1	-	Yes	-	Yes	Supported by design
AV5115	65201	H.264 M-JPEG	1	2560x1600	-	1/1	-	Yes	-	Yes	
AV5125	65201	H.264 M-JPEG	1	2560x1600	-	1/1	-	Yes	-	Yes	
AV10115	65201	H.264 M-JPEG	1	3648x2752	-	1/1	-	Yes	-	Yes	
AV20185DN	65170	H.264 M-JPEG	4	2560x1920	-	1/1	-	Yes	-	Yes	
AV20365DN	Refer to AV20185DN	H.264 M-JPEG	4	2560x1920	-	1/1	-	Yes	-	Yes	Supported by design

Note: On-edge motion: turn off the "enable extended on motion detection" function on camera web.

Note: For multiple-channel models, such as AV8180 and AV20185DN, there might be some issues if configuring different protocols on each channel. (i.e. the resolution we receive is half of the original)

Panasonic



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
WV-SC384	Refer to WV-SC385	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	Yes	Yes	-	Supported by design
WV-SF132	Refer to WV-SW155/M	H.264 M-JPEG	1	1280x960	1-way	-	-	Yes	-	Supported by design
WV-SF135	Refer to WV-SW155/M	H.264 M-JPEG	1	1280x960	1-way	-	-	Yes	-	Supported by design
WV-SF342	Refer to WV-SF332	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	Yes	Yes	-	Supported by design
WV-SF346	Refer to WV-SF336	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	Yes	Yes	-	Supported by design
WV-SW152/M	Refer to WV-SW155/M	H.264 M-JPEG	1	1280x960	1-way	-	-	Yes	-	Supported by design
WV-SW155/M	1.03	H.264 M-JPEG	1	1280x960	1-way	-	-	Yes	-	
WV-SW352	Refer to WV-SW352	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-	Yes	-	Supported by design

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WV-SW355	1.41	H.264 MPEG4 M-JPEG	1	1280x960	1-way	-	-	Yes	-	
Samsung										
										
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
SNB-7000	Refer to SNB-7080	H.264 M-JPEG	1	2048x1536	1-way	1/1	-	Yes	-	Supported by design
SND-7080	v1.10_110819	H.264 M-JPEG	1	2048x1536	1-way	1/1	-	Yes	-	
SNP-3301	v1.21_110310	H.264 MPEG4 M-JPEG	1	704x480	1-way	4/2	Yes	Yes	-	
SNP-3370	v1.21_110310	H.264 MPEG4 M-JPEG	1	704x480	1-way	4/2	Yes	Yes	-	
Note:	SNP-3301/SNP-3370: not support QCIF resolution with H.264 through TCP.									
SNV-3120	v1.24_110816	H.264 MPEG4 M-JPEG	1	704x480	1-way	1/1	Yes	-	-	
Note:	PTZ: support zoom and focus.									
SNV-5010	v2.00_110727	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	-	-	Yes	-	
Note:	The frame rate of main stream decrease to the half if watching dual stream video. Camera vendor fix this issue in FW 2.10_111227.									
SNV-7080	Refer to SND-7080	H.264 M-JPEG	1	2048x1536	1-way	1/1	-	Yes	-	Supported by design
SNV-7080R	Refer to SND-7080	H.264 M-JPEG	1	2048x1536	1-way	1/1	-	Yes	-	Supported by design
SNZ-5200	v1.05_111216	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	1/1	Yes	Yes	-	
Vista										
										
Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
VK2-1080VRD	2.2.64	H.264 M-JPEG	1	1920x1080	1-way	2/0	-	Yes	Yes	
VK2-2MPVRD	2.2.64	H.264 M-JPEG	1	1600x1200	1-way	2/0	-	Yes	Yes	
Note:	VK2-1080VRD/VK2-2MPVRD: on-edge motion of video with M-JPEG codec works only as stream 1 is enabled on camera web.									

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Note:	VK2-1080VRD/VK2-2MPVRD: camera may be disconnected if users configure format as H.264 on one NVR and configure format M-JPEG on another.									
VK2-540VRD	2.1.8-release	H.264 MPEG4	1	704x576	1-way	1/0	-	Yes	Yes	
VK2-600PTZ	2.1.8-release	H.264 MPEG4	1	704x576	1-way	1/0	Yes	Yes	Yes	
Note:	The operation of setting preset point is special because setting password is a must. We suggest users finish preset point settings on camera web.									
VK2-VGAVFD	1.7.4-T2_release	H.264 MPEG4	1	640x480	-	1/0	-	Yes	Yes	
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



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 rate of main stream decrease to the half if watching dual stream video, which is the limitation of camera HW.									
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	

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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 rate of main stream decrease to the half if watching dual stream video, which is the limitation of camera HW.									
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
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 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 SD83x2E are detected as SD83x3E.									
SD83x3E	0100g	H.264 MPEG4 M-JPEG	1	720x480	1-way	3/2	Yes	Yes	Yes	
VS8401	Refer to VS8801	H.264 MPEG4 M-JPEG	4	720x480	1-way	4/4	Yes	Yes	-	Supported by design

Zavio



Device Name	Tested Firmware	Video Format	Video Ch	Max Resolution	Audio	I/O Ch	PTZ	On-Edge Motion	UPnP	Remarks
D5110	Refer to D5111	H.264 MPEG4 M-JPEG	1	1280x1024	-	2/2	Yes	Yes	Yes	Supported by design
D5111	MG.1.6.03P7_app7	H.264 MPEG4 M-JPEG	1	1280x1024	-	2/2	Yes	Yes	Yes	
F7110	MG.1.6.03P3_r1072	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	2/2	Yes	Yes	Yes	
F7115	Refer to F7110	H.264 MPEG4 M-JPEG	1	1280x1024	1-way	2/2	Yes	Yes	Yes	Supported by design
F7210	M2.1.5.08	H.264 MPEG4 M-JPEG	1	1920x1080	1-way	2/2	Yes	Yes	Yes	