HN-6500 Series

HD-NVR with Built-in PoE (Max. 8Ch)

Plug & Play | **Real-time** | **4K ULTRA HD**

- Plug & Play with Built-in PoE (Max. 8ch)
- Additional Channels for 4ch & 8ch model (5ch & 1ch, each)
- ONVIF Compatible & Auto IP Camera Detection/Registration
- Intelligent Dual (Main & Sub) Stream Recording/Display
- System Performance Monitoring (Bandwidth & Network Status, etc.)
- P2P Function that doesn't require Port Forwarding
- iSCSI function Support – External HDD through Network
- Smart Search – Multiple search by time & minutes' base
- Link Local (Zero Configuration) Supports
- H.264 I-Reference Supports

[HN-6504]

[HN-6508/6516]

MODEL		HN-6504	HN-6508	HN-6516
Max. HDD Bay		1 x SATA HDD	4 x SATA HDD	4 x SATA HDD
Operating System		Embedded Linux		
IP Camera	Channel	4 Ch+ 5 Ch (additional)	8 Ch+ 1 Ch (additional)	16 Ch
	Protocol	FOCUS, ONVIF		
	No. of PoE	4 Ch	8 Ch	8 Ch
	PoE Type	100Mbps, 802.3at		
Display	Speed	270 fps	270 fps	480 fps
	Screen Mode	1, 4 & 9	1, 4 & 9	1, 4, 9 & 16
Video-In		IP Camera (Upto 4K UHD)		
Video-Out	Monitor	Composite & VGA & HDMI		
	Resolution	HDMI: 800x600, 1024x768, 1280x1024, 1920x1080 (Selectable)		
Recording Speed	CIF~1080P	270 fps	270 fps	480 fps
	1920P	270 fps	270 fps	480 fps
	2160P	270 fps	270 fps	480 fps
Recording Resolution		Main Stream(up to 4K) & Sub Stream		
Recording Modes		Continuous, Scheduled, Sensor-Activated & Motion Detection Recording		
		Pre & Post Alarm Recording, Emergency Recording, Quick Backup		
Playback & Search	Speed	x1, x2, x4, x8, x16, x32, x64, x99		
	Ch & Resolution	1 & 4 : Main Stream, 9 & 16 : Sub Stream		
	Function	Intelli-Search by Time Bar, Calendar (Date & Time) and Event Search		
Audio Output		1 Ch		
Alarm Input / Relay Output		4 Ch/ 1 Ch		
P/T/Z Control		RS-485, ONVIF		
		Pan/Tilt/Zoom/Focus/Iris by Keyboard		
LAN		Gigabit Ethernet (RJ45) -Fixed IP, DHCP & DDNS		
Network Function		1) Dual-Stream (Local Recording & Network Transmission)		
		2) Dual-Recording(Live Display / Playback)		
		3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)		
		4) Time Synchronization by NTP Server ("pool.ntp.org")		
		5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control		
		6) P2P Cloud Service (Auto Port forwarding)		
Remote Management	Software	CMS & MMS (MV3000)		
	Web (IE)	Live Monitoring, Playback & System Configuration		
Backup Device		Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server		
System Recovery after Power Failure		Auto-Reboot and Journaling File System		
Advanced Functions		1) Firmware Upgrade by USB & CMS over Network		
		2) Import & Export of Setting Value, Water-Mark, AVI File Backup		
		3) Quick Setup to designate Recording Period		
		4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)		
		5) Warning Alarm for System Over-Temperature		
		6) Help Message for easy setup & Multi-Language support		
		7) Digital Zoom for both Live & VOD mode		
		8) Smart Search		
POS		Text-in Based (USB to Serial support, TCP/IP Network)		
e-SATA		Not Available	Available for External Storage	
System Operation		IR Remote Controller, USB Mouse, Keyboard (Option)		
Power		48V x 1.88A D/C	48V x 3.3A D/C	48V x 3.3A D/C
Operating Temperature and Humidity		5~40 °C/ 20~90% RH		
Dimension (WxDxH)		264 x 245 x 44 (mm)	360 x 380 x 66 (mm)	
Certification		CE & FCC & KCC & WEEE, RoHS		

(*) Specification is subject to change without prior notice.

HD-NVR (PoE)

HN-6600 Series

HD-NVR with Built-in PoE (16Ch PoE) Plug & Play | Real-time | 4K ULTRA HD

- ▸ Plug & Play with Built-in PoE (16ch)
- ▸ ONVIF Compatible & Auto IP Camera Detection/Registration
- ▸ Intelligent Dual (Main & Sub) Stream Recording/Display
- ▸ System Performance Monitoring (Bandwidth & Network Status, etc.)
- ▸ P2P Function that doesn't require Port Forwarding
- ▸ iSCSI function Support – External HDD through Network
- ▸ Smart Search – Multiple search by time & minutes' base
- ▸ Various Connection Method depending on user/site
- ▸ Link Local (Zero Configuration) Supports
- ▸ H.264 I-Reference Supports

[HN-6616]

MODEL		HN-6616 (16ch)
Max. HDD Bay		4 x SATA HDD
Operating System		Embedded Linux
IP Camera	Channel	16 Ch
	Protocol	FOCUS, ONVIF
	No. of PoE	16 Ch
	PoE Type	1Gbps, 802.3af
Display	Speed	480fps
	Screen Mode	1, 4, 9 & 16
Video-In		IP Camera (Up to 4K UHD)
Video-Out	Monitor	VGA & HDMI & Composite
	Resolution	HDMI: 800x600, 1024x768, 1280x1024, 1920x1080 (Selectable)
Recording Speed	CIF~1080P	480fps
	1920P	480fps
	2160P	480fps
Recording Resolution		Main Stream(up to 4K) & Sub Stream
Recording Modes		Continuous, Scheduled, Sensor-Activated & Motion Detection Recording
		Pre & Post Alarm Recording, Emergency Recording, Quick Backup
Playback & Search	Speed	x1, x2, x4, x8, x16, x32, x64, x99
	Ch & Resolution	1 & 4 : Main Stream, 9 & 16 : Sub Stream
	Function	Intelli-Search by Time Bar, Calendar (Date & Time) and Event Search
Audio Output		1 Ch
Alarm Input / Relay Output		4 Ch/ 1 Ch
P/T/Z Control		RS-485, ONVIF
LAN		Gigabit Ethernet (RJ45) -Fixed IP, DHCP & DDNS
Network Function		1) Dual-Stream (Local Recording & Network Transmission)
		2) Dual-Recording(Live Display / Playback)
		3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)
		4) Time Synchronization by NTP Server ("pool.ntp.org")
		5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control
		6) P2P Cloud Service (Auto Port forwarding)
Remote Management	Software	CMS & MMS (MV3000)
	Web (IE)	Live Monitoring, Playback & System Configuration
Backup Device		Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server
System Recovery after Power Failure		Auto-Reboot and Journaling File System
Advanced Functions		1) Firmware Upgrade by USB & CMS over Network
		2) Import & Export of Setting Value, Water-Mark, AVI File Backup
		3) Easy Setupby Startup Wizard
		4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)
		5) Tool for System Performance Monitoring at a glance
		6) Help Message for easy setup & Multi-Language support
		7) Digital Zoom for both Live & VOD mode
		8) Smart Search
POS		Text-in Based (USB to Serial support, TCP/IP Network)
e-SATA		Available for External Storage
System Operation		IR Remote Controller, USB Mouse, Keyboard (Option)
Power		110~240VA/C
Operating Temperature and Humidity		5~40 °C/ 20~90% RH
Dimension (WxDxH)		420 x 400 x 88 (mm)
Certification		CE & FCC & KCC & WEEE, RoHS

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FOCUS H&S
We focus on Humanity & Safety

FN-8000 Series

HD-NVR with None PoE

Plug & Play | **Real-time** | **HD 1080p**

- 36Ch & 64ChReal Time Display and Real time Recording
- Throughput 200Mbps for 36Ch and 320Mbps for 64Ch
- ONVIF Compatible & Auto IP Camera Detection/Registration
- Intelligent Dual(Main & Sub) Stream Recording/Display
- System Performance Monitoring(Bandwidth & Network Status, etc.)
- P2P Function that doesn't require Port Forwarding
- iSCSI function Support – External HDD through Network
- Smart Search – Multiple search by time & minutes' base
- Zero Configuration Supported
- H.264 I-Reference Supported

[FN-8036]

[FN-8064]

MODEL		FN-8036 (36 Ch)	FN-8064 (64 Ch)
Max. HDD Bay		4EA	12EA
Operating System		Embedded Linux	
IP Camera	Channel	36 Ch	64 Ch
	Protocol	FOCUS, ONVIF	
	No. of PoE	None	
	Resolution	Up to 8M (4K)	
Display	Speed	IP Camera (Upto 4K UHD)	
	Screen Mode	Real time	
Video-In		1, 4, 9, 16, 25, 36	1, 4, 9, 16, 25, 36, 49, 64
Video-Out	Monitor	VGA & HDMI	
	Resolution	1024x768, 1280x1024, 1920x1080, 2560x1440, 2560x1600, 3840x2160(4K) (Selectable)	
Recording Speed	CIF ~ 1080P	1080fps	1920fps
	1920P	1080fps	1920fps
	2160P	1080fps	1920fps
Recording Resolution		Main Stream(up to 4K) & Sub Stream	
Throughput (Max. Bandwidth)		200Mbps	320Mbps
Recording Modes		Continuous, Motion, Sensor, Continuous +Motion, Continuous +Sensor, Motion + Sensor	
		Pre & Post Alarm Recording, Emergency Recording, Quick Backup	
Playback & Search	Speed	x1, x2, x4, x8, x16, x32, x64, x99	
	Ch & Resolution	1 & 4 & 9 & 16: Main Stream, More than 25channels mode : Sub Stream	
	Function	Search by Time Bar, Calendar (Date & Time) and Event Search, Smart Search, Advanced Smart Search	
Simultaneous Playback		36Ch Real time Playback	64Ch Real time Playback
Sensor in /Relay Output		16Ch / 4 Ch	
P/T/Z Control		RS-485, ONVIF	
LAN		Gigabit Ethernet (RJ45) x 2EA, Fixed IP, DHCP & DDNS, DHCP server embedded	
Advanced Functions		1) Dual-Strea m (Local Recording & Network Transmission)	
		2) Dual-Recording(Live Display / Playback)	
		3) Live Monitoring, Remote Playback and File Backup (Triplex-on-Remote)	
		4) Time Synchronization by NTP Server ("pool.ntp.org")	
		5) Remote & E-Mail Notification, Remote System Reboot by IE, Remote PTZ Control	
		6) P2P Service (No Port forwarding required)	
Remote Management	Software	CMS & MV3000(Mobile App)	
	Web (IE)	Live Monitoring, Playback & System Configuration	
Backup Device		Local Backup by USB ODD, Network Backup by CMS, File Upload to FTP Server	
System Recovery after Power Failure		Auto-Reboot and Journaling File System	
Advanced Functions		1) Firmware Upgrade by USB & CMS over Network	
		2) Import & Export of Setting Value, Water-Mark, AVI File Backup	
		3) Easy Setup by Startup Wizard	
		4) HDD SMART Info (Model, Capacity, Bad Sector, Temperature, Used Period)	
		5) Tool for System Performance Monitoring at a glance	
		6) Help Message for easy setup & Multi-Language support	
		7) Digital Zoom for both Live & VOD mode	
		8) Smart Search	
POS		Text-in Based (USB to Serial support, TCP/IP Network)	
System Operation		Front Button, IR Remote Controller, USB Mouse, Keyboard (Option)	
Power		D/C 12V/7A	110~240A/C
Operating Temperature and Humidity		5~40 °C/ 20~90% RH	
Dimension (WxDxH)		420 x 400 x 88 (mm)	430 x 400 x 132 (mm)
Certification		CE & FCC & KCC & WEEE, RoHS	

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Cameras

Camera Line-Up (IP & AHD)

- ▸ PoE IP Cameras
- ▸ Panoramic IP Camera

Onvif   **Full HD 1080P**   **dual**   **PoE**

Our IP Cameras are perfectly matched with our NVR, Edge NVR and Digital Spot and All cameras are compatible with latest Onvif protocols. With our Plug and Play feature, you can connect IP cameras to our NVR easily and quickly.

Camera Line-Up (IP & AHD)

System	SPEC					
	System	Model	Case	Lens	Sensor	Main Features
IP(2.1M)	Dome	FID-2030RFWP		Fixed 3.6mm	SONY IMX291/Xarina	POE/4KV/Status LED
		FIG-2030RFWP		Fixed 3.6mm	SONY IMX291/Xarina	POE/4KV/Status LED
		FID-2030RVWP		Vari Focal - 2.8mm ~ 12mm	SONY IMX291/Xarina	POE/4KV/Status LED
		FID-2030RAWP		Auto Focus - 2.8mm ~ 12mm	SONY IMX291/Xarina	POE/4KV/Status LED
	Bullet	FIB-2030RFGP		Fixed 3.6mm	SONY IMX291/Xarina	POE/4KV/Status LED /Waterproof Cable Cap
		FIB-2030RVGP		Vari Focal - 2.8mm ~ 12mm	SONY IMX291/Xarina	POE/4KV/Status LED /Waterproof Cable Cap
		FIB-2030RAGP		Auto Focus - 2.8mm ~ 12mm	SONY IMX291/Xarina	POE/4KV/Status LED /Waterproof Cable Cap
	Housing	FIH-2030RAWP		Auto Focus - 2.8mm ~ 12mm	SONY IMX291/Xarina	POE/4KV/Status LED /High Power LED
AHD	Dome	FAD-2011RFWU		Fixed 3.6mm	SONY IMX323	UTC
	Bullet	FAB-2011RFGU		Fixed 3.6mm	SONY IMX323	UTC
	Housing	FAH-2011RAWU		Auto Focus - 2.8mm ~ 12mm	SONY IMX323	UTC
	Dome	FAD-2010RFWU		Fixed 3.6mm	SONY IMX323	UTC/4KV/Status LED
		FAG-2010RFWU		Fixed 3.6mm	SONY IMX323	UTC/4KV/Status LED
		FAD-2010RVWU		Vari Focal - 2.8mm ~ 12mm	SONY IMX323	UTC/4KV/Status LED
		FAD-2010RAWU		Auto Focus - 2.8mm ~ 12mm	SONY IMX323	UTC/4KV/Status LED
	Bullet	FAB-2010RFGU		Fixed 3.6mm	SONY IMX323	UTC/4KV/Status LED
		FAB-2010RVGU		Vari Focal - 2.8mm ~ 12mm	SONY IMX323	UTC/4KV/Status LED
		FAB-2010RAGU		Auto Focus - 2.8mm ~ 12mm	SONY IMX323	UTC/4KV/Status LED