

Eight-channel 4K ePoE Network Video Recorder

1U 8 PoE Ports H.265 NVR



- H.265 and H.264 Dual Codecs
- Maximum 320 Mbps Incoming Bandwidth
- Up to 12 MP Resolution for Preview and Playback
- All Ports Support ePoE and EoC Signal Transmission, up to 800 m (2625 ft) via CATSE and 1000 m (3281 ft) via RG59
- HDMI and VGA Simultaneous Video Output
- Five-year Warranty*

















System Overview

Dahua's Pro Series network video recorders offer excellent performance and high recording quality for IP video surveillance applications. For applications where details are critical for identification, this professional NVR provides a powerful processor with up to 4K resolution. Additionally, the NVR features a mouse shortcut operation menu, remote management and control, central storage, edge storage, and back up storage options.

Functions

Enhanced Power over Ethernet (ePoE) Technology

Dahua's innovative ePoE technology offers a plug-and-play solution to transmit power and data over long distances via Ethernet or coaxial cables, reducing installation time and saving money. ePoE technology is a viable, cost-effective solution for extending transmission distances and for converting existing, coax-based analog systems into IP systems. For video security and surveillance installers, ePoE technology saves time and money by reducing overall cabling requirements, allowing for existing coax cable to be used, and minimizing the number of peripheral devices needed. For new installations, ePoE offers the ability to design long-distance applications without the need for additional repeaters.

Enhanced PoE encompasses pure IP systems where a single CAT5E cable can carry signals up to 800 m (2625 ft), and IP/Analog hybrid systems where the technology leverages existing analog infrastructure to transmit power and data up to 1000 m (3281 ft) over RG59 coaxial cable. Enhanced PoE is compatible with three connection modes operating over the same network simultaneously: traditional IP networks, long-distance ePoE networks and coaxial networks. ePoE technology seamlessly integrates the latest high-definition IP cameras with a coaxial infrastructure using the Ethernet over Coaxial (EoC) protocol to convert between analog and IP power and data transmissions.

Dewarping Mode

The NVR has the ability to correct the distortion in a circular panoramic view produces by a fisheye lens. The NVR offers various dewarping modes for different installations and configurations.

Intelligent Video System (IVS) Recording

Working with IVS-enabled IP cameras, the NVR recognizes and records video that contains IVS data on all IP channels. The NVR records standard intelligence at-the-edge features, and abandoned or missing objects, Tripwire violations, and intrusion violations. The NVR also records business analysis data — Facial Detection, People Counting, and Heat Map — from IP cameras with built-in Intelligent Business Analytics.

Face Recognition

The NVR stores face recognition video and data from a dedicated facial recognition camera connected to the NVR. The NVR triggers an event if the recognition database on the camera detects a face match.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Automatic Network Replenishment Technology (ANR)

Network Video Recorders with the ANR function automatically store video data on an IP camera SD card when the network is disconnected. After recovery of the network, the NVR automatically retrieves the video data stored on the camera.

Smart Fan

The NVR automatically adjusts the fan speed based on the ambient temperature. Smart Fan technology increases the life of the unit, reduces maintenance costs, and reduces noise.

Automatic License Plate Capture

The NVR automatically captures and stores vehicle license plate images from a dedicated license plate capture camera connected to the NVR. During playback, an operator can perform a license plate search by Time and Date to view thumbnail images of all plates captured during the specified time period. License plate capture technology offers effective entrance/exit management, traffic surveillance, and parking lot monitoring.



Technical Specification		Network	
System		Interface	One (1) RJ-45 Port (10/100/1000 Mbps)
Main Processor	Quad-core Embedded Processor	PoE	Eight(8) Ports (IEEE802.3af/at)
Operating System	Embedded LINUX		All ports support ePoE and EoC
Audio and Video		ePoE and EoC	Ports 1 through 8
IP Camera Input	Eight (8) Channels	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, and NVS)
Audio	Input: One (1) Channel, RCA	NetworkTunction	
Display	Output: One (1) Channel, RCA	Maximum User Access	128 Users
	One (1) HDMI Port	Mobile Operating System	IOS, Android
Interface	One (1) VGA Port	Interoperability	ONVIF 2.4, SDK, CGI
Native Output Becalution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768		OWNII 2.4, SUN, COI
Native Output Resolution	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720, 1024 × 768	Storage	Two (2) SATA III Ports,
Maximum Decoding	Four (4) Channels of 8 MP at 30 fps	Internal HDD	up to 10 TB capacity for each HDD
-	Eight (8) Channels of 1080p at 30 fps	Auxiliary Interface	
Multi-screen Display	1/4/8/9 Camera Title, Time, Camera Lock,	USB	One (1) USB 3.0 Port (rear panel) One (1) USB 2.0 Port (front panel)
On-screen Display	Motion Detection, Recording	RS232	One (1) Port, for PC Communication and Keyboard
Recording		RS485	One (1) Port, for PTZ control
Compression Supported ID Compre	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	Electrical	
Supported IP Camera Resolution	12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p, D1, CIF		100 VAC to 240 VAC, 50/60 Hz
Fisheye Dewarping	One (1) Channel of 12 MP	Power Supply	
Maximum Incoming Bandwidth	320 Mbps	Power Consumption	NVR: < 15.2 W, without HDD
Bit Rate	16 Kbps to 20 Mbps per Channel Manual, Schedule (Regular, Motion Detection),	PoE Budget	130 W Total Rated Power, 80% control for protection Maximum 25.5 W for a single port
Record Mode	Alarm, IVS, Stop	Fan	Smart Fan Function, NVR automatically adjusts fan speed based on ambient
Record Interval	1 to 120 minutes (default: 60 minutes) Pre-record: 1 to 30 s Post-record: 10 to 300 s	Environmental	temperature
Video Detection and Alarm			10° C to 155° C (114° E to 1121° E) 9C to 10C kpg
Trigger Events	Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips	Operating Temperature	-10° C to +55° C (+14° F to +131° F), 86 to 106 kpa
Video Detection	Motion Detection, MD Zones: 396 (22 \times 18),	Storage Temperature	–20° C to +70° C (–4° F to +158° F), 0 to 90% RH
Video Detection	Video Loss and Tampering	Construction	
Alarm Input	Four (4) Channels	Dimensions	275.0
Relay Output Playback and Backup	Two (2) Channels	NVR	375.0 mm x 326.48 mm x 53.0 mm (14.76 in. x 12.85 in. x 2.08 in.)
Sync Playback	1/4/9	NVR with PFH101 Rack Mount Tray	482.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.)
Search Mode	Time /Date, Alarm, MD and Exact Search	Net Weight	2.70 kg (6.0 lb), without HDD
	(accurate to 1 second) Play, Pause, Stop, Rewind, Fast Play, Slow Play,	Gross Weight	4.0 kg (8.80 lb), without HDD
Playback Function	Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom	Certifications	4.0 kg (o.oo ib), without HDD
Backup Mode	USB Device and Network	CE	EN55032, EN55024, EN50130-4, EN60950-1
Third-party Support		Safety	UL 60950-1
Third-party Support	Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco Samsung Sanyo Sony Videoter, Vivotek	Electromagnetic Compatibility (EMC)	FCC Part 15 Subpart B ANSI C63.4-2014
a part, capper	Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others		

Ordering Information					
Туре	Part Number	Description			
	N52B2P1	8-channel 1U ePoE 4K, H.265, 1 TB HDD Network Video Recorder			
O channel NIV/D	N52B2P2	8-channel 1U ePoE 4K, H.265, 2 TB HDD Network Video Recorder			
8-channel NVR	N52B2P4	8-channel 1U ePoE 4K, H.265, 4 TB HDD Network Video Recorder			
	N52B2P8	8-channel 1U ePoE 4K, H.265, 8 TB HDD Network Video Recorder			
Accessories, optional	PFH101	Rack Mount Tray 482.60 mm x 281.20 mm x 43.7 mm (19.0 in. x 11.07 in. x 1.72 in.)			
ePoE Accessories	LR1002	EoC Passive Converter			

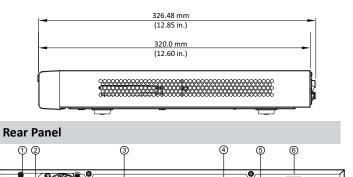
Accessories

ePoE:



LR1002 **EoC Passive** Converter

Dimensions (mm/in.) 375.0 mm (14.76 in.) @Uhun



1	Power Input	6	VGA Output
2	Power Switch	7	HDMI Output
3	PoE/PoE+ Ports (x8 RJ-45) ePoE/EoC Ports: 1 through 8	8	USB 3.0 Port
4	Alarm Input (x4) Alarm Output (x2) RS485 Port	9	RJ-45 Ethernet Port (1000 Mbps)
5	RS232 Port	10	Audio Input (x1 RCA) Audio Output (x1 RCA)

