

Eight-channel 4K ePoE Network Video Recorder

1U 8 PoE Ports H.265 NVR





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.

- 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 CAT5E and 1000 m (3281 ft) via RG59
- HDMI and VGA Simultaneous Video Output
- Five-year Warranty*







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.



P. Camera Input	Technical Specification		Network	
Pope-string System	System		Interface	One (1) RJ-45 Port (10/100/1000 Mbps)
Operating System Enhelished UNIX ePoE and 6 oC Perts 1 through 8 Audio and Video 1P Cammer Input Fight RQ Channels Network Function HTTE HTTES, TEARS, INS., IP Entry, Poeks, Diss., IP Entry, Diss., Diss., IP Entry, Poeks, Diss., IP Entry, Poeks, Diss., IP Entry, Poeks, Diss., IP Entry, Poeks, Diss., IP Entry, Diss., Diss., IP Entry, Diss., Diss., IP Entry, Diss., Diss., IP Entry, Diss., Dis	Main Processor	Quad-core Embedded Processor	PoE	
Pace	Operating System	Embedded LINUX	-P-5 - ad 5- C	
P Camera Input Eight 18 Channels Paper 10 ct P Camera Paper 10 ct P Paper 10 ct	Audio and Video		ePOE and EOC	Ports 1 through 8
Audilo	IP Camera Input	Eight (8) Channels	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS,
Display	Audio	, ,		
Interface	Display		Maximum User Access	128 Users
Native Output Resolution	Interface		Mobile Operating System	IOS, Android
Native Output Resolution 1280 x 720, 1024 x 788 Storage Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 788 Internal HDD Two (?) SATA III Ports, 1280 x 720, 1024 x 748 x 74			Interoperability	ONVIF 2.4, SDK, CGI
Maximum Decoding For (4) Channels of 8 MP at 30 fos Eight (8) Channels of 8 MP at 30 fos Eight (8) Channels of 8 MP at 30 fos Eight (8) Channels of 8 MP at 30 fos Eight (8) Channels of 1000p at 30 fos Eight (8) Channels of	Native Output Resolution	1280 × 720, 1024 × 768	Storage	
Multi-screen Display Multi-screen Display 1/4/8/9 Clamens of 1080 pt 31 0fps			Internal HDD	, ,
Multi-screen Display On-screen Display Camera Title, Time, Camera Lock, Motion Detection, Recording Recording Compression Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera 1.3 MP, 720p, D.1, CIF Stheye Dewaying One (1) USB 3.0 Port (rear panel) One (1) USB 2.0 Port (front panel) Resolution Resolution Resolution Resolution Record In Supported IP Camera 1.3 MP, 720p, D.1, CIF Stheye Dewaying One (1) Port, for PC Communication and Keybox Resolution Record In Supported IP Camera 1.3 MP, 720p, D.1, CIF Power Supply Resolution Record Mode Record Manual, Schedule (Regular, Motion Detection), Alarm, INS, 150 m Record Interval Record Int	Maximum Decoding		Auxiliary Interface	ap to 10 to capacity for Caciffidd
On-screen Display Camera Title, Time, Camera Lock, Motion Detection, Recording Recording Recording Compression Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1880p, 13 MP, 720p, DL, GF Fisheye Dewarping One (1) Charled of 12 MP Power Supply Down Consumption NVR: < 15.2 W, without HDD NVR: < 15.2 W, without HDD NVR: < 15.2 W, without HDD NVR cord Interval Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, IVS, Stop Pot-record: 10 to 30's	Multi-screen Display	1/4/8/9		One (1) USB 3.0 Port (rear panel)
Recording Compression Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1.3 MP, 720p, D.J., CIF Fisheye Dewarping One (1) Channel of 12 MP Maximum Incoming Bandwidth 320 Mbps Bit Rate 16 Kbps to 20 Mbps per Channel Poet Budget 130 W Total Rated Power, 80% control for prote Maximum 25.5 W for a single port for protein	On-screen Display		036	One (1) USB 2.0 Port (front panel)
Compression Smart H.265+, H.265, Smart H.264+, H.264, MIPE6 Supported IP Camera Resolution 1.3 MP, 720p, D1, CIF Fisheye Dewarping One (1) Channel of 12 MP Maximum Incoming Bandwidth 320 Mbps Bit Rate 16 Kbps to 20 Mbps per Channel Power Consumption NVR: < 15.2 W, without HDD Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, Ivs, Stop Record Interval Post-record. 1 to 30 s Pre-record. 1 to 30 s Final Storage Temperature Post-record. 1 to 30 s Final Storage Temperature Power Style (144 °F to +131° F), 86 to 10 6 k Storage Temperature Power Agrae (1476 in. x12.85 in. x 2.08 in.) Video Detection Motion Detection, MD Zones: 396 (22 x 18), Video Loss and Tampering Dimensions Relay Output Four (4) Channels Dimensions Relay Output Two (2) Channels NVR (1479) Playback and Backup Playback and Backup Playback Function Play, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device and Network CE ENSSO2, ERSD524, ENSD324,	Recording	, 5	RS232	One (1) Port, for PC Communication and Keyboard
Resolution 1.3 MP, 720p, D1, CIF Fisheye Dewarping One (1) Channel of 12 MP Maximum Incoming Bandwidth 320 Mbps Bit Rate 16 Kbps to 20 Mbps per Channel PoE Budget 130 W Total Rated Power, 80% control for prote Maximum 25.5 W for a single port Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, NYS, Stop Post-record: 1 to 30° pre-record: 1 to 30° post-record: 10 to 300 s Video Detection and Alarm Video Detection MD Zones; 396 (22 × 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Motion Detection, MD Zones; 396 (22 × 18), Video Loss and Tampering Alarm Input Four (4) Channels Pour (5) Construction NVR 375.0 mm x 326.48 mm x 53.0 mm (14.76 in. x 12.85 in. x 2.08 in.) Playback and Backup Sync Playback If me / Date, Alarm, MD and Exact Search (accurate to 1 second) Playback Function Play-pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device and Network CE ENSS032, ENSS032, ENSS032, ENSS032, ENSS032, ENSS032, ENSS032, ENSS032, ENSS032, ENSS030-1 Electromagnetic File Cream Support Safety UL60950-1	Compression	Smart H.265+, H.265, Smart H.264+, H.264, MJPEG	RS485	One (1) Port, for PTZ control
Maximum Incoming Bandwidth 320 Mbps Bit Rate 16 Kbps to 20 Mbps per Channel Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, IvS, Stop Pre-record: 1 to 3 0s Pre-record: 1 to 4 0s Pre	• •		Electrical	
Bit Rate 16 Kbps to 20 Mbps per Channel PoE Budget 130 W Total Rated Power, 80% control for prote Maximum 25.5 W for a single port M	Fisheye Dewarping	One (1) Channel of 12 MP	Power Supply	100 VAC to 240 VAC, 50/60 Hz
Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, IVS, Stop Record Interval 1 to 120 minutes (default: 60 minutes) Pre-record: 1 to 300 s Pre-record: 1 to 300 s Post-record: 10 to 300 s Environmental Operating Temperature Operating Temperature -10° C to +55° C (+14° F to +131° F), 86 to 106 k Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Video Detection Motion Detection, MD Zones: 396 (22 x 18), Video Loss and Tampering Alarm Input Four (4) Channels Playback and Backup Playback and Backup Sync Playback 1/4/9 Search Mode Time /Date, Alarm, MD and Exact Search (accurate to 1 second) Play Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Playback Punction Backup Mode USB Device and Network CE ENS5032, ENS5024, ENS0130-4, EN60950-1 Fina Smart Fan Function, NVR and Exact Search (accurate to 1 second) Smart Fan Function, NVR and Exact Search (accurate to 1 second) Recording Temperature -10° C to +55° C (+14° F to +131° F), 86 to 106 k Third-party Support Alarm Input Play Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous File, Next Camera, Previous File, Next Camera, Previous Gamera, Full Screen, Backup Selection, Digital Zoom Digital Zoom Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	Maximum Incoming Bandwidth	320 Mbps	Power Consumption	NVR: < 15.2 W, without HDD
Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, IVS, Stop Pre-record: 1 to 30 s Pre-record: 1 to 4 to	Bit Rate	16 Kbps to 20 Mbps per Channel	PoE Budget	130 W Total Rated Power, 80% control for protection
Record Interval Pre-record: 1 to 30 s Post-record: 1 to 10 s 30 s Environmental Video Detection and Alarm Trigger Events Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips Storage Temperature -0° to to +55° C (+14° F to +131° F), 86 to 106 k Storage Temperature Post 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 Relay Output Two (2) Channels NVR 375.0 mm x326.48 mm x53.0 mm (14.76 in. x 12.85 in. x 2.08 in.) Sync Playback and Backup Sync Playback 1/4/9 Rack Mount Tray (19.0 in. x 12.85 in. x 2.08 in.) Search Mode Time / Date, Alarm, MD and Exact Search (accurate to 1 second) Record (19.0 in. x 12.85 in. x 2.08 in.) Playback Function Play, Psus, Stop, Rewind, Fast Play, Slow Play, Next Tile, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Certifications Backup Mode USB Device and Network CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	Record Mode			Smart Fan Function,
Video Detection and Alarm Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering Alarm Input Four (4) Channels Relay Output Two (2) Channels Playback and Backup Sync Playback 1/4/9 Playback Function Playback Function Playback Function Playback Dakey USB Device and Network Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Directing Temperature -10° C to +55° C (+14° F to +131° F), 86 to 106 kg Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Storage Temperature -20° C to +70° C (-4° F to +158°	Record Interval	Pre-record: 1 to 30 s		NVR automatically adjusts fan speed based on ambier temperature
Trigger Events Recording, PTZ, Tour, Alarm Out, Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Motion Detection, MD Zones: 396 (22 x 18), Video Loss and Tampering Construction Alarm Input Four (4) Channels Relay Output Two (2) Channels NVR NVR NVR with PFH101 Rack Mount Tray A82.60 mm x 326.48 mm x 53.0 mm (14.76 in. x 12.85 in. x 2.08 in.) NVR with PFH101 Rack Mount Tray Playback and Backup Sync Playback Implication Four (4) Channels NVR NVR with PFH101 Rack Mount Tray A82.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) Net Weight 2.70 kg (6.0 lb), without HDD Play Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Digital Zoom Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	Video Detection and Alar		Environmental	
Video Detection Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering Construction Alarm Input Four (4) Channels Playback and Backup Sync Playback Time / Date, Alarm, MD and Exact Search (accurate to 1 second) Playback Function Playback Function Backup Mode USB Device and Network Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Dimensions NVR NVR 375.0 mm x 326.48 mm x 53.0 mm (14.76 in. x 12.85 in. x 2.08 in.) NVR with PFH101 Rack Mount Tray A82.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) Net Weight 2.70 kg (6.0 lb), without HDD Certifications Certifications Electromagnetic FCC Part 15 Subpart B	Trigger Events		Operating Temperature	-10° C to +55° C (+14° F to +131° F), 86 to 106 kpa
Video Loss and Tampering Construction Alarm Input Four (4) Channels Relay Output Two (2) Channels NVR NVR 375.0 mm x 326.48 mm x 53.0 mm (14.76 in. x 12.85 in. x 2.08 in.) Playback and Backup Sync Playback 1/4/9 Search Mode Time /Date, Alarm, MD and Exact Search (accurate to 1 second) Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device and Network CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B			Storage Temperature	-20° C to +70° C (-4° F to +158° F), 0 to 90% RH
Relay Output 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.) NVR with PFH101 Rack Mount Tray Search Mode Time / Date, Alarm, MD and Exact Search (accurate to 1 second) Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device and Network Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	Video Detection		Construction	
Playback and Backup Sync Playback 1/4/9 Search Mode Time / Date, Alarm, MD and Exact Search (accurate to 1 second) Playback Function Playbac			Dimensions	
Sync Playback 1/4/9 Search Mode Time /Date, Alarm, MD and Exact Search (accurate to 1 second) Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device and Network Next Weight 2.70 kg (6.0 lb), without HDD Gross Weight 4.0 kg (8.80 lb), without HDD Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B		Two (2) Channels	NVR	
Search Mode Time / Date, Alarm, MD and Exact Search (accurate to 1 second) Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom Backup Mode USB Device and Network CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	,	1/4/0		
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Backup Mode USB Device and Network CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Safety UL 60950-1 Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	Playback Function Next File, Previous File, Next Camera, Previous Camera, Full Screen, Backup Selection,		, and the second	4.0 kg (8.80 lb), without HDD
Third-party Support Safety UL 60950-1 Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B	Backup Mode	_		EN55032, EN55024, EN50130-4, EN60950-1
Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Electromagnetic FCC Part 15 Subpart B			Safety	UL 60950-1
Third-party Support Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, ANSI C63.4-2014 ANSI C63.4-2014		Canon, CP Plus, Dynacolor, Honeywell, Panasonic,	Electromagnetic	FCC Part 15 Subpart B

Camera Support

Thermal Cameras	Eight (8) Channels
Analytics+ Cameras	
Face Recognition	Four (4) Channels
Perimeter Protection	Eight (8) Channels
Metadata	Eight (8) Channels
Smart Motion Detection	Any channel connected to a Dahua Network camera with Smart Motion Detection

Intelligence

IVS triggers an alarm and takes a defined action for the following event

IVS triggers an alarm and takes a defined action for the following events:				
Standard Features	 Tampering with the camera. Camera loses or changes focus drastically. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. 			
Premium Features				
Motion	An object moves through any part of the scene.			
Tripwire	A target crosses a user-defined line.			
Intrusion	A target enters or exits a defined perimeter.			
Scene Change	A person or object moves the camera to change the scene or covers the camera to obscure the scene.			
Abandoned/Missing Object	A target leaves an object in designated area, or a target removes an object from the same designated area.			
Advanced Features (records data from IP cameras with Advanced Features)				
Facial Detection	Detects and captures a snapshot of a human face in a defined area within a scene.			
Face Recognition	Triggers an event if the connected facial recognition camera matches a face to one stored on the camera's database.			
People Counting	Measure the number of customers, visitors or passengers in a surveillance scene.			
Heat Map	Generates a visual representation of data.			

ePoE/EOC Transmission Distances

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 48 V Maximum DC resistance < $10 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	33	E100
300 (984)	100	19	19	E100
400 (1312)	10	17	17	E10
500 (1640)	10	13	13	E10
800 (2625)	10	7	7	E10

Via CAT5E/CAT6 Ethernet Cable

ePoE supply voltage 53 V Maximum DC resistance < $10 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	53	IEEE/E100
200 (656)	100	25.5	47	E100
300 (984)	100	25.5	32	E100
400 (1312)	10	23	26	E10
500 (1640)	10	20	20	E10
800 (2625)	10	13	13	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 48 V Maximum DC resistance $< 5 \Omega/100 \text{ m}$

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	50	IEEE/E100
200 (656)	100	25.5	30	E100
300 (984)	100	18	18	E100
400 (1312)	100	15	15	E100
500 (1640)	10	12	12	E10
800 (2625)	10	6	6	E10
1000 (3281)	10	5	5	E10

Via RG-59 Coaxial Cable

ePoE supply voltage 53 V Maximum DC resistance < 5 Ω/100 m

Cable Length, m (ft)	Bandwidth, Mbps	PoE Load Capacity, W	Hi-PoE Load Capacity, W	Working Mode
100 (328)	100	25.5	52	IEEE/E100
200 (656)	100	25.5	48	E100
300 (984)	100	25.5	30	E100
400 (1312)	100	20	23	E100
500 (1640)	10	16	16	E10
800 (2625)	10	10	10	E10
1000 (3281)	10	8	8	E10

ePoE and **EoC** Applications

Pure Ethernet



EoC with Single-port EoC Receiver





LR1002

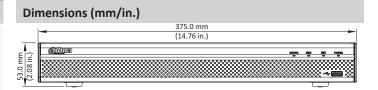
Ordering Information				
Туре	Part Number	Description		
	N52B2P1	8-channel 1U ePoE 4K, H.265, 1 TB HDD Network Video Recorder		
O channel NIV/D	N52B2P2	8-channel 1U ePoE 4K, H.265, 2 TB HDD Network Video Recorder		
8-channel NVR	N52B2P4	8-channel 1U ePoE 4K, H.265, 4 TB HDD Network Video Recorder		
	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		

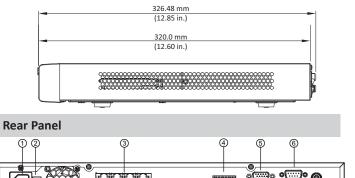
Accessories

ePoE:



LR1002 EoC Passive Converter





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)

The recorder SMD functions are available only when connected to a Dahua network camera with SMD functionality. Pair a Smart Motion Detection camera with a Dahua recording device that also offers SMD functionality to take advantage of SMD alarm filtering and object classification when searching and playing back recorded video.

