

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.

| Record Interval Pre-record: 1 to 30 s Post-record: 10 to 300 s Post-record: 10 to 40 to | Technical Specification | | Network | | |
|--|---------------------------------------|---|-----------------------|--|--|
| Pose | System | | Interface | One (1) RJ-45 Port (10/100/1000 Mbps) | |
| Part | Main Processor | Quad-core Embedded Processor | PoF | - , , , , , , , , , , , , , , , , , , , | |
| Processing Pro | Operating System | Embedded LINUX | 101 | All ports support ePoE and EoC | |
| Audio | Audio and Video | | ePoE and EoC | Ports 1 through 8 | |
| Addition | IP Camera Input | Eight (8) Channels | | | |
| Maximum UserAccess 128 Lisers 128 Lise | Audio | | Network Function | FTP, Alarm Server, IP Search (Support Dahua IP | |
| Interface | Display | | Maximum User Access | 128 Users | |
| Native Output Resolution 1280 x 720, 1280 x 1024 x 1080 1280 x 1204 x 1280 x 128 | Interface | | | IOS, Android | |
| 120 x 1208 x 1208, 1208 x 1204, 1208 x 1208, 1208, 1208 x 12 | | | Interoperability | ONVIF 2.4 SDK CGI | |
| Maximum Decoding Four (4) Channels of 8 MP at 30 fps Field (8) Chamels of 1680p at 30 fps Multi-screen Display Multi-screen Display Conscreen Di | Native Output Resolution | | | ONVII 2.4, 35K, COI | |
| Multi-screen Display 14/8/9 Auxiliary Interface Camera Title, Time, Camera Lock, Motion Detection, Recording Recording Recording 22 Mill, 8 Mill, 6 Mill, 5 Mill, 5 Mill, 5 Mill, 5 Mill, 6 Mill | Maximum Docading | | | Two (2) SATA III Ports | |
| Comera Title, Time, Camera Lock, Motion Detection, Recording Recording Recording Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Compression Smart H.265+, H.260, Smart H.264+, H.264, MIPEG 12 MP, S.MP, G.MP, S.MP, A.MP, S.MP, J.B80p, 13 MP, 720, D.J. CIF 13 MP, 720, D.J. CIF Herecording rate is dependent on the maximum resolution and frame rate of the connected iP camera. Scalable Maximum Incoming Bandwidth 30 Mpsp. Resolution Record Mode Maximum Incoming Bandwidth 30 Mpsp. Record Mode Maximus Incoming Bandwidth 30 Mpsp. Record Interval Power Consumption Maximus Incoming Bandwidth 30 Mpsp. Record Interval Record Interval Poemer Consumption Maximus Incoming Bandwidth 30 Mpsp. Record Mode Maximus Incoming Bandwidth 30 Mpsp. Record Interval Record Interval Poemer Consumption Maximus Incoming Bandwidth 30 Mpsp. Poemer Consumption NNR. c.15.2 W, without HDD NNR. c.15.2 W, without HDD Power Consumption NNR. c.15.2 W, without HDD NNR. c.15.2 W, without HDD Fan Maximum Incoming Bandwidth 40 Mpsp. Poemer Consumption NNR. automatically adjusts fan speed based on ambient temperature Poemer General Title, State Stat | Waximum Decouning | Eight (8) Channels of 1080p at 30 fps | Internal HDD | | |
| Recording Recording Compression Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution Smart H.265+, H.265, Smart H.264+, H.264, MIPEG Supported IP Camera Resolution This Resolution Smart H.265+, H.265, Smart H.264+, MIPEG Smart Fan Function NVR: < 15.2 W, without HDD Power Consumption NVR: < 15.2 W, without HDD Power Consumption NVR: < 15.2 W, without HDD Power Supply 100 VAC to 240 VAC, 50/60 Hz Power Consumption NVR: <1 | Multi-screen Display | | Auxiliary Interface | | |
| Compression Smart H.265, H.265, Smart H.264, H.264, MIPEG Supported IP Camera Resolution Resoluti | | | USB | | |
| Supported IP Camera Resolution 12 MP, 8 MP, 6 MP, 5 MP, 4 MP, 3 MP, 1080p, 1,3 MP, 720p, DJ, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP camera.) 10 VAC to 240 VAC, 50/60 Hz | - | | RS232 | One (1) Port, for PC Communication and Keyboard | |
| Supported IP Camera Resolution Supported IP Camera Resolution Supported IP Camera Resolution Supported IP Camera Resolution and frame rate of the connected IP camera.) Power Supply 100 VAC to 240 VAC, 50/60 Hz | Compression | | RS485 | One (1) Port, for PTZ control | |
| Fisheye Dewarping One (1) Channel of 12 MP Power Supply NNR: < 15.2 W, without HDD NNR: < 15.2 W, without HDD NNR: < 15.2 W, without HDD Now Total Rated Power, 80% control for protection Maximum Incoming Bandwidth Bit Rate 16 Kbps to 20 Mbps per Channel Record Mode Alarm, IVS, Stop Per-record: 10 a0 30 Post-record: 10 to 300 s Video Detection and Alarm Video Detection Motion Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Buzzer and Screen Tips Video Detection Video Detection Video Detection, MD Zones; 396 (22 x 18), Video Push, Email, Snapshot, Snapsho | | 1.3 MP, 720p, D1, CIF (The recording rate is dependent on the maximum resolution and frame rate of the connected IP | Electrical | Electrical | |
| 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 30 s Post-record: 1 to 30 s | Nessia iii | | Power Supply | 100 VAC to 240 VAC, 50/60 Hz | |
| Bit Rate 16 Kbps to 20 Mbps per Channel PoE Budget 130 W Total Rated Power, 80% control for protection Maximum 25.5 W for a single port Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, IVS, Stop 1 to 120 minutes (default: 60 minutes) Pre-record: 10 a 30.5 Post-record: 10 to 40.5 Post-record: 10 to 40 | Fisheye Dewarping | One (1) Channel of 12 MP | Power Consumption | NVR: < 15.2 W, without HDD | |
| Record Mode Manual, Schedule (Regular, Motion Detection), Alarm, IVS, Stop Per-ecord: 1 to 120 minutes (default: 60 minutes) Pre-record: 1 to 30 s Pre-record: 1 to 30 s Post-record: 2 to 4 s Post-re | | | DoE Budget | 130 W Total Rated Power, 80% control for protection | |
| Record Interval Alarm, IVS, Stop Pre-record: 1 to 120 minutes (default: 60 minutes) Pre-record: 1 to 30 s Post-record: 1 to 300 s Post-record: 1 to 300 s Post-record: 1 to 10 sano s Post-record: 1 to 30 s Post-record: 1 to 40 s Post record: 2 to 4 to | Bit Rate | | POE Buuget | | |
| Record Interval Pre-record: 1 to 30 s Post-record: 10 to 300 s Post-record: 10 to 40 to 40 s Post-record: 10 to 40 | Record Mode | Alarm, IVS, Stop | Fan | NVR automatically adjusts fan speed based on ambient | |
| 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 Dimensions 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.) 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 Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) Third-party Support Storage Temperature -20° C to +70° C (-4° F to +158° F), 0 to 90% RH Construction Dimensions 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 482.60 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 Certifications Certifications Third-party Support | Record Interval Pre-record: 1 to 30 s | | Environmental | | |
| Video Detection Motion Detection, MD Zones: 396 (22 × 18), Video Loss and Tampering Dimensions Relay Output Playback and Backup Sync Playback Search Mode Play, Pause, Stop, Rewind, Fast Play, Slow Play, Previous Flie, Previo | Video Detection and Ala | rm | Operating Temperature | -10° C to +55° C (+14° F to +131° F), 86 to 106 kpa | |
| Alarm Input Four (4) Channels Dimensions 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.) Playback and Backup Sync Playback 1/4/9 NVR with PFH101 A82.60 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 (accurate to 1 second) Net Weight 2.70 kg (6.0 lb), without HDD Playback Function Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous Camera, Previous Camera, Full Screen, Backup Selection, Digital Zoom CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Campatibility (EMC) ANSI C63.4-2014 | Trigger Events | | 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.) 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 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) Third-party Support 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 (19.0 in. x 12.85 in. x 2.08 in.) 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 (19.0 in. x 12.85 in. x 2.08 in.) Search Mode 2.70 kg (6.0 lb), without HDD Certifications Certifications Certifications Electromagnetic Compatibility (EMC) ANSI C63.4-2014 | 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 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 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) NVR with PFH101 482.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) A82.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) A82.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) A82.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) 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 Celectromagnetic Certifications FCC Part 15 Subpart B ANSI C63.4-2014 | Alarm Input | Four (4) Channels | Dimensions | | |
| 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 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Next Weight 2.70 kg (6.0 lb), without HDD 482.60 mm x 326.48 mm x 53.0 mm (19.0 in. x 12.85 in. x 2.08 in.) Accurate to 1 second) Search Mode Cross Weight 4.0 kg (8.80 lb), without HDD Certifications Certifications Electromagnetic Compatibility (EMC) FCC Part 15 Subpart B ANSI C63.4-2014 | Relay Output | Two (2) Channels | NVR | | |
| 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) 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 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Certifications CE EN55032, EN55024, EN50130-4, EN60950-1 FCC Part 15 Subpart B ANSI C63.4-2014 | Playback and Backup | | NVR with PFH101 | | |
| 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 EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) ANSI C63.4-2014 | Sync Playback | 1/4/9 | | | |
| Playback Function 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, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) ANSI C63.4-2014 | Search Mode | | Net Weight | 2.70 kg (6.0 lb), without HDD | |
| Backup Mode USB Device and Network CE EN55032, EN55024, EN50130-4, EN60950-1 Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) Certifications EN55032, EN55024, EN50130-4, EN60950-1 UL 60950-1 FCC Part 15 Subpart B ANSI C63.4-2014 | Playback Eurotion | | Gross Weight | 4.0 kg (8.80 lb), without HDD | |
| Third-party Support Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Canon, CP Plus, Dynacolor, Honeywell, CP Plus, CP Plu | Flayback FullCIIUII | | Certifications | | |
| Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) Compatibility (EMC) Compatibility (EMC) | Backup Mode | USB Device and Network | CE | EN55032, EN55024, EN50130-4, EN60950-1 | |
| Third-party Support Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Compatibility (EMC) ANSI C63.4-2014 | Third-party Support | | Safety | UL 60950-1 | |
| and others | Third-party Support | Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, | _ | | |

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 d | ata 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

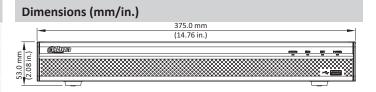
| Ordering Information | | | | |
|-----------------------|-------------|---|--|--|
| Туре | Part Number | Description | | |
| | N52B2P2 | 8-channel 1U ePoE 4K, H.265, 2 TB HDD Network Video Recorder | | |
| O shares al AlV/D | N52B2P3 | 8-channel 1U ePoE 4K, H.265, 3 TB HDD Network Video Recorder | | |
| 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 | | |

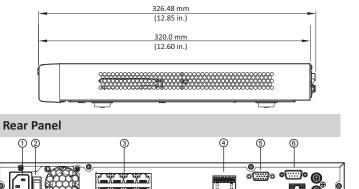
Accessories

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.

