

EZ-N416PRO

16CH 1U 16PoE 2HDDs Network Video Recorder



Series Overview

It supports 4K resolution for scenes that require highly detailed images, and can serve as the edge, central, or backup storage with an intuitive shortcut menu for remote management and control. When an IPC is connected to the NVR, a variety of AI functions become available such as face detection, perimeter protection, and people counting. This NVR is both cost-effective and easy-to-install, making it ideal for a wide range of applications such as for cities, transportation, education and finance.

Functions

SMD Plus by Camera

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Face Detection by Camera

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition by Camera

Face Recognition technology extracts the features of captured faces and compares them with that in face database.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 8 x 1080p@30 fps or 2 x 8 MP@30 fps.
- · Max. 160/160/80 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 12 MP.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, people counting, stereo analysis and heat map.
- One-click arming and disarming.















Perimeter Protection by Camera

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Stereo Analysis by Camera

With deep learning algorithm and 3-dimensional scene information, Stereo Analysis technology can recognize people's behaviors, such as fall detection, violence detection, stay detection, and space exception, and then generates alarm signals and triggers linkage.

Heat Map by Camera

Heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

EZ-IP Series | EZ-N416PRO

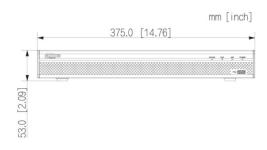
LZ-IF JEHES L	Z-114101 NO		
Technical Specification	on	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha
System Compression Standard		rd	
Main Processor	Industrial-grade processor	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264
Operating System	Embedded Linux	Audio Compression	G.711a; G.711u; PCM; G726
Operating Interface	Web, Local GUI	Network	
Al		recwork	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS;
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	Network Protocol	SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
		Mobile Phone Access	iOS; Android
Perimeter Protection		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Perimeter Performance of AI by Camera (Number of	6 channels	Browser	Chrome; IE; Safari; Edge; Firefox
Channels)		Recording Playback	
Face Detection		Multi-channel Playback	Up to 16 channels
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Record Mode	General, motion detection; intelligent; alarm
Face Detection		Backup Method	USB device and network
Performance of AI by Camera (Number of Channels)	6 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Face Recognition		Storage	
Face Recognition		Disk Group	Yes
Performance of AI by Camera (Number of	6 channels	Alarm	
Channels) SMD Plus		General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Jivid i lus		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
SMD Plus by Camera	6 channels	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
Audio and Video		Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
Access Channel	16 channels	Port	
Network Bandwidth	Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Audio Input	1-channel RCA
Network Bandwidth		Audio Output	1-channel RCA
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p;	Alarm Input	4 channels
nesolution	720p; D1; CIF; QCIF	Alarm Output	2 channels (1-channel 12 V 1 A output)
Decoding Capability	Al disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 8-channel 1080p@30 fps Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30 fps 1 HDMI, 1 VGA Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Disk Interface	2 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
		RS-232	1
		USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
Video Output		HDMI	1
		VGA	1
		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
		PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at
Multi-screen Display	Main Screen: 1/4/8/9/16	General	
s.c oc. cen bispiay	Sub Screen: 1/4/8/9/16	Power Supply	100–240 VAC, 50/60 Hz

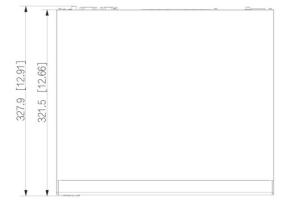
EZ-IP Series | EZ-N416PRO

Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5 W	
Net Weight	2.60 kg (5.73 lb)	
Gross Weight	3.80 kg (8.38 lb)	
Product Dimensions	375.0 mm x 327.9 mm x 53.0 mm (14.76" x 12.91" x 2.09") (W x D x H)	
Packaging Dimensions	451.0 mm x 147.0 mm x 425.0 mm (17.76" x 5.79" x 16.73") (W x D x H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	10%–93% (RH), non-condensing	
Installation	Rack or desktop	
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-	

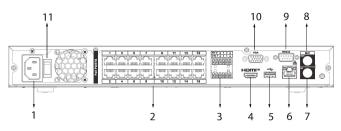
Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	EZ-N416PRO	16CH 1U 16PoE 2HDDs Network Video Recorder		

Dimensions (mm[inch])





Panels



- 1 Power Input
- 3 Alarm In/Out
- 5 USB Port
- 7 AUDIO IN, RCA Connector
- 9 RS-232 Port
- 11 Power Switch
- 2 PoE Ports
- 4 HDMI Port
- 6 Network Port
- 8 AUDIO OUT, RCA Connector
- 10 VGA Port