

DHI-NVR4832-16P-EI

32CH 2U 16PoE 8HDDs WizSense Network Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

NVR4000-EI series is a new generation of network recorders that offers powerful decoding capabilities, and strong bandwidth. It features high-precision face recognition, perimeter protection, and SMD (Smart Motion Detection), which can distinguish target vehicles and humans from other types in real time. When connected with select IPC cameras, Quick Pick technology becomes available, allowing human and vehicle targets to be easily searched for and picked out. This network recorder is not only cost-effective, but also compatible with a wide variety of third-party devices, making it a great choice for small and medium-sized businesses.

Functions

Face Detection

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

Dahua Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

Perimeter Protection

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

- \cdot Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- · Access, storage or forwarding at 256 Mbps (180 Mbps when Al function enabled).
- \cdot Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding.
- · Al by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus.
- · Al by Camera: Face detection and recognition, perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map.
- · Connected to the third-party network cameras.
- · Security baseline 2.3.



SMD Plus

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.

AI Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

Heat Map by Camera

Dahua 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.

ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

Quick Pick

Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.

Technical Specification			Al disabled: 256 Mbps incoming, 256 Mbps recording	
System		Network Bandwidth	and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing	
Main Processor	Industrial-grade processor	Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p;	
Operating System	Embedded Linux		960p; 720p; D1; CIF	
Operating Interface	Web; Local GUI		Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel	
Al		Decoding Capability		
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus	Decouning capability		
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map		1080p@30 fps 1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
Perimeter Protection	l	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.	
Perimeter Performance AI by Recorder (Number of	2 channels, 10 IVS rules for each channel			
Channels) Perimeter Performance of Al by Camera (Number of	9 channels	Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16	
Channels)	8 channels	Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon	
Face Detection	Face Detection		Compression Standard	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Face Detection Performance of AI by		Audio Compression	G.711a; G.711u; PCM; G726	
Recorder (Number of Channels)	1 channel (up to 12 face images/s each channel)	Network		
Face Detection Performance of Al by Camera (Number of Channels)	8 channels	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register	
Face Recognition		Mobile Phone Access	iOS; Android	
race necognition		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK	
	Up to 10 face databases with 200,00 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	Browser	Chrome; IE9 and later; Firefox	
Face Database Capacity		Recording Playback		
		Multi-channel Playback	Up to 16 channels	
Face Recognition Performance of AI by Recorder (Number of	8-channel FD (by camera) + FR (by recorder),image stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Record Mode	General, motion detection; intelligent; alarm	
Channels)		Backup Method	USB device and network	
Face Recognition Performance of AI by Camera (Number of Channels)	8 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback	
		Storage		
SMD Plus		Disk Group	Yes	
	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Alarm		
SMD Plus by Recorder		General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
SMD Plus by Camera	8 channels	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity	
Vehicle License Plate	Comparison		exception	
ANPR by Camera (Number of Channels)	4 channels	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
Audio and Video		Port		
Access Channel	32 channels	Audio Input	1-channel RCA	

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Audio Output	1-channel RCA	
Alarm Input	16 channels	
Alarm Output	4 channels	
HDD Interface	8 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.	
RS-232	1	
RS-485	1	
USB	3 (2 front USB 2.0 ports, 1 rear USB 3.0 port)	
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	

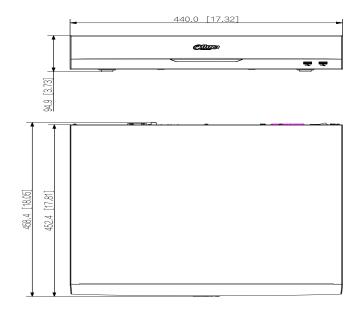
General

Power Supply	100–240 VAC, 50-60 Hz	
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 150 W,the maximum output power of a single port is 25.5W	
Net Weight	6.72 kg (14.82 lb)	
Gross Weight	8.70 kg (19.18 lb)	
Product Dimensions	440.0 mm × 458.4 mm x 94.9 mm (17.32" × 18.05" × 3.73") (W × D × H)	
Packaging Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (W × D × 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)	
Installation	Rack or desktop	
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032: 2015+A1: 2020; EN IEC 61000-3-2: 2019+A1: 2021; EN 61000-3-3: 2013+A1: 2019+A2: 2021; EN 55035: 2017+A11: 2020; EN 50130-4: 2011+A1: 2014 CE-LVD: EN 62368-1: 2014	

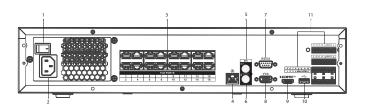
Ordering Information

Туре	Model	Description
32 Channels	DHI-NVR4832-	32CH 2U 16PoE 8HDDs WizSense
WizSense NVR	16P-EI	Network Video Recorder

Dimensions (mm[inch])



Panels



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