

DHI-NVR4432-16P-EI

32CH 1.5U 16PoE 4HDDs 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.

- · 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.
- · AI 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.

System Network Bandwidth Network Bandwidth Network Bandwidth 180 Mbps outgoing Al enabled: 180 Mbps incoming, 180	Mbps recording and	
Main Processor Industrial-grade processor Resolution 16 MP; 12 MP; 8 MP; 5 MP; 4 M	ИР; 3 MP; 1080p;	
Operating System Embedded Linux 960p; 720p; D1; CIF Al disabled:		
Operating Interface Web; Local GUI 2-channel 16 MP@30 fps; 2-channel 1		
Al A-channel 8 MP@30 fps; 6-channel 5 8-channel 4 MP@30 fps; 16-channel 5 8-channel 4 MP@30 fps; 16-channel 5		
	ibled: nnel 16 MP@30 fps; 2-channel 12 MP@30 fps; nnel 8 MP@30 fps; 4-channel 5 MP@30 fps;	
Face detection; face recognition; perimeter protection; Al by Camera SMD Plus; ANPR; people counting; stereo analysis; heat map 1 HDMI, 1 VGA		
Perimeter Protection Video Output		
Perimeter Performance AI by Recorder (Number of Channels, 10 IVS rules for each channel VGA: 1920 × 1080, 1280 × 1024, 1280 * 1080, 1280 × 1024, 1280 * 1080, 1280 × 1080, 128		
Channels) Perimeter Performance of Al by Camera (Number of 8 channels Multi-screen Display 1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16 2nd Screen: 1/4/8/9/16		
Channels) Third-party Camera Access Panasonic, Sony, Samsung, Axis, Pelco	o, Arecont, ONVIF,	
Face Detection Compression Standard	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 Audio Compression G.711a; G.711u; PCM; G726 Performance of Al by		
Recorder (Number of Channels) 1 channel (up to 12 face images/s each channel) Network		
Face Detection Performance of AI by Camera (Number of Channels) Retwork Protocol Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol Notwork Protocol NVS; etc.); P2P; auto register	oE; DDNS; FTP;	
Face Recognition Mobile Phone Access iOS; Android		
Interoperability ONVIF 22.06(Profile T; Profile S; Profil	le G); CGI; SDK	
Up to 10 face databases with 200,00 images, with a total capacity of 2.5 G. Name, gender, birthday, address,		
Face Database Capacity credential type, credential No., countries & regions and state can be added to each face image. Recording Playback		
Multi-channel Playback Up to 16 channels		
Face Recognition Performance of AI by Recorder (Number of 1-channel FD (by recorder) + FR (by recorder), image Recorder (Number of 1-channel FD (by recorder) + FR (by recorder), video Record Mode General, motion detection; intelligen	t; alarm	
Channels) Stream: 12 face images/s Backup Method USB device and network		
Face Recognition Performance of AI by 8 channels 8 channels	vent playback, tag	
Camera (Number of Channels) Storage		
SMD Plus Pisk Group Yes		
4 channels: Secondary filtering for human and motor		
SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change General Alarm Motion detection; privacy masking; v changing; PIR alarm; IPC external alarm		
SMD Plus by Camera 8 channels Camera disconnection; storage error Anomaly Alarm Camera disconnection; storage error conflict; MAC conflict; login locked; a		
Vehicle License Plate Comparison		
ANPR by Camera (Number of Channels 4 channels Intelligent Alarm Face detection; face recognition; per SMD Plus; people counting; stereo and SMD Pl		
License Plate Database Capacity 1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist Alarm Linkage buzzer; log; preset; email	output; audio;	
Audio and Video Port		
Access Channel 32 channels Audio Input 1-channel RCA		

Wiz Sense | DHI-NVR4432-16P-EI

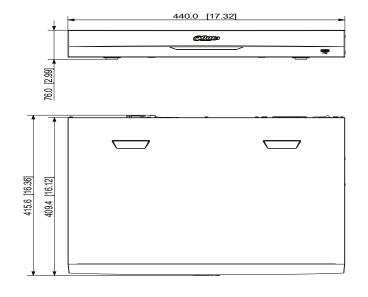
Audio Output	1-channel RCA
Alarm Input	16 channels
Alarm Output	4 channels
HDD Interface	4 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.
RS-232	1
RS-485	1
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at

General

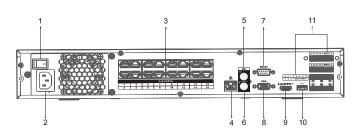
Power Supply	100–240 VAC, 50-60 Hz
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 150W,the maximum output power of a single port is 25.5 W
Net Weight	4.82 kg (10.63 lb)
Gross Weight	6.78 kg (14.95 lb)
Product Dimensions	440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × D × H)
Packaging Dimensions	529.0 mm \times 499.0 mm x 211.0 mm (20.83" \times 19.65" \times 8.31") (W \times D \times 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 Type Model Description 32 Channels DHI-NVR4432- 32CH 1.5U 16PoE 4HDDs WizSense WizSense NVR 16P-EI Network Video Recorder

Dimensions (mm[inch])



Panels



- 1 Power Switch
- 3 PoEPorts
- 5 MICOUT,RCA Connector
- 7 RS-232 Port
- 9 HDMI Port 11 Alarm In/Out
- 2 PowerInput
- 4 Network Port
- 6 MICIN,RCA Connector
- 8 VGA Port
- 10 USBPort