



DHI-NVR4232-16P-EI

32CH 1U 16PoE 2HDDs 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.
- · AAI 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; 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

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

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.

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.

Main Processors Main Industrial grade processors Main Processors Web Local CUI Al Al Properating Interface Web Local CUI Al Al by Recorder Al by Camera Main Processors Web Local CUI Al Al by Camera Main Processors Main Processor	Technical Specification			Al disabled: 2-channel 16 MP@30 fps; 2-channel 12	
Main Processor Industrial grade processor Operating System Embedded Linux Welt, tocal GII All All All All All All All					
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Operating interface AI AI AI by Recorder AI by Recorder AI by Recorder AI by Camera Al by Recorder Al by Camera Al by Ca	Operating System	Embedded Linux			
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All by Camera Face detection, face recognition, perimeter protection Audio Compression Standard Video Compression Smart H.264x; H.264; MIPEG Audio Compression Audio Compression Multi-Channels Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection Performance of Al by Camera (Number of Channels) Protection (Number of Channels) Protection (Number of Cha	Al by Recorder	and SMD Plus	Video Output	VGA: 1920×1080 , 1280×1024 , 1280×720 *Simultaneous/heterogeneous video sources output for	
Perimeter Performance Al by Recorder (Number of Channels) Perimeter Performance of Al by Camera (Number of Channels) Perimeter Performance of Al by Camera (Number of Channels) Perimeter Performance of Al by Camera (Number of Channels) Perimeter Performance of Al by Camera (Number of Channels) Performance of Al by Camera (Number of Channels	AI by Camera		Multi-screen Display	1st Screen: 1/4/8/9/16/25/36	
by Recorder (Number of Channels) Perimeter Performance of Al by Camera (Number of Channels) Recorder (Number of Channels)	Perimeter Protection				
Audio Compression G.711a, G.711u, PCM; G.726 Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Gender; age group; glasses; expressions; face mask; beard I channel (up to 12 face images/s each channel) 1 channel (up to 12 face images/s each channel) Recorder (Number of Channels) 8 channels 8 channels 8 channels 8 channels Up to 10 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, greated ential type, credential Noe, countries & regions and state can be added to each face images. Face Recognition Schannels Achannels SmD Plus Achannels Achan	by Recorder (Number of	2 channels, 10 IVS rules for each channel			
Channels) Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard 1 channel (up to 12 face images/s each channel) Audio Compression Audio Compression NetWork Network Network Network Protocol Asmr Server; IP Search (Support Dahua IP camera; DVR; NYS; etc.); P.2P; autor register Mobile Phone Access IOS, Android Interoperability ONVIF 22.06(Profile T; Profile S; Profile S			Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Face Attributes Gender; age group; glasses; expressions; face mask; beard Gender; age group; glasses; expressions; face mask; beard I channel (up to 12 face images/s each channel) Performance of Al by Recorder (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Database Capacity Up to 10 face databases with 20,000 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 images. Face Recognition Fac		8 channels	Audio Compression	G.711a; G.711u; PCM; G726	
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Recorder (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Recognition Face Database Capacity Face Recognition			Network Protocol	SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR;	
Channels) Face Detection Performance of Al by Camera (Number of Channels) Browser Chrome; IE9 and later; Firefox Recording Playback Multi-channel Playback Up to 16 channels Wilti-channel Playback Up to 16 channels Wilti-channel Playback Up to 16 channels Record Mode Backup Method USB device and network Face Recognition Performance of Al by Recorder (Number of Channels) Storage Face Recognition Performance of Al by Camera (Number of Channels) Storage Disk Group Yes Alarm Anomaly Plays by Recorder Anomaly Alarm Face detection; face recognition; perimeter protection; storage error; disk full; IP Conflict, MAC conflict; login locked; and cybersecurity exception Intelligent Alarm Face detection; face recognition; perimeter protection;	· ·	1 channel (up to 12 face images/s each channel)	Mahila Dhana Assass		
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Face Recognition Performance of Al by Recorder (Number of Channels) 8 -channels 8 -channels 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 1 -channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channel FD (by recorder), video stream: 12 face images/s 1 -channels 1 -c	Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and	Record Mode	General, motion detection; intelligent; alarm	
Performance of AI by Recorder (Number of Channels) Face Recognition Performance of AI by Camera (Number of Channels) SMD Plus by Recorder 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Playback Mode playback, smart playback Storage Disk Group Yes Alarm Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm Anomaly Alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception Intelligent Alarm Face detection; face recognition; perimeter protection;			Backup Method	USB device and network	
Channels) Storage Face Recognition Performance of Al by Camera (Number of Channels) SMD Plus A channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Recorder Storage Disk Group Yes Alarm General Alarm Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm Anomaly Alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception Intelligent Alarm	Performance of AI by stream: 12 face im Recorder (Number of 1-channel FD (by r	stream: 12 face images/s	Playback Mode		
Performance of AI by Camera (Number of Channels) SMD Plus 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Alarm Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception Intelligent Alarm Face detection; face recognition; perimeter protection;			Storage		
Camera (Number of Channels) SMD Plus Alarm General Alarm Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; MAC conflict; login locked; and cybersecurity exception Anomaly Alarm Face detection; face recognition; perimeter protection;	Performance of AI by	8 channels	Disk Group	Yes	
SMD Plus by Recorder 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change General Alarm Anomaly Alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception Intelligent Alarm Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception			Alarm		
SMD Plus by Recorder 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Anomaly Alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception Intelligent Alarm Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception			General Alarm	, , , , , , , , , , , , , , , , , , , ,	
Intelligent Alarm Face detection; face recognition; perimeter protection;		vehicle, reducing false alarms caused by leaves, rain and	Anomaly Alarm	conflict; MAC conflict; login locked; and cybersecurity	
SMD Plus by Camera 8 channels SMD Plus; people counting; stereo analysis; heat map	SMD Plus by Camera		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	Audio and Video		Alarm Linkage		
Access Channel 32 channels Port	Access Channel	32 channels	Port	, 0,1	
All disabled: 256 Mbps incoming, 256 Mbps recording		and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and		1-channel RCA	
Network Bandwidth allu 256 Millips outgoing	Network Bandwidth		·		
Resolution 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF 4 channels	Resolution		Alarm Input	4 channels	
Alarm Output 2 channels			Alarm Output	2 channels	

Wiz Sense | DHI-NVR4232-16P-EI

HDD Interface	2 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.	
RS-232	1	
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 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	

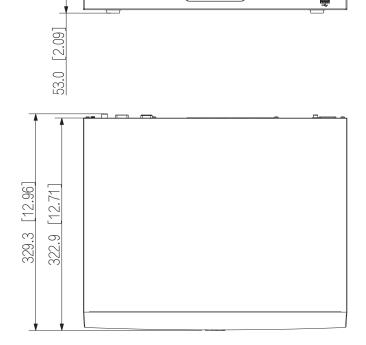
General

Power Supply	100–240 VAC, 47-63 Hz	
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of asingle port is 25.5W	
Net Weight	2.60 kg (5.73 lb)	
Gross Weight	3.80 kg (8.38 lb)	
Product Dimensions	375.0 mm × 329.3 mm × 53.0 mm (14.76" × 12.96" × 2.09") (W × L × H)	
Packaging Dimensions	451.0 mm × 425.0 mm × 147.0 mm (17.75" × 16.73" × 5.79") (W × L × 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

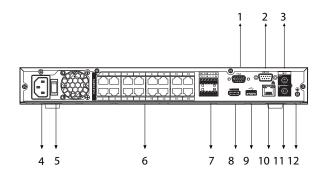
Туре	Model	Description
32 Channels	DHI-NVR4232-	32CH 1U 16PoE 2HDDs WizSense
WizSense NVR	16P-EI	Network Video Recorder

Dimensions (mm[inch])



375.0 [14.76]

Panels



- 1 VGA Port
- 3 AUDIO OUT, RCA Connector
- 5 Power Switch
- 7 Alarm In/Out
- 9 USB Port
- 11 AUDIO IN, RCA Connector

- 2 RS-232 Port
- 4 Power Input
- 6 PoE Ports
- 8 HDMI Port
- 10 Network Port
- 12 Ground