

DHI-NVR4832-EI

32CH 2U 8HDDs WizSense Network Video Recorder



Wiz Sense

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 Recognition

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

Perimeter Protection

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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (180 Mbps when AI function enabled)
- 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
- AI 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.

Al 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.

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Technical Specification System Main Processor Industrial-grade processor Operating System Embedded Linux Operating Interface Web, Local GUI AI Face detection, face recognition, perimeter protection, AI by Recorder and SMD Plus; Face detection; face recognition; perimeter protection; Al by Camera SMD Plus; ANPR; people counting; stereo analysis; heat map Perimeter Protection Perimeter Performance AI 2 channels, 10 IVS rules for each channel by Recorder (Number of Channels) Perimeter Performance of AI by Camera (Number of All channels (8 targets/s) Channels) Face Detection Gender; age group; glasses; expressions; face mask; Face Attributes beard Face Detection Performance of AI by 1 channel (up to 12 face images/s each channel) Recorder (Number of Channels) Face Detection Performance of AI by All channels (8 targets/s) Camera (Number of Channels) Face Recognition Up to 10 face databases with 20,000 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. Face Recognition 8-channel FD (by camera) + FR (by recorder), image Performance of AI by stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video Recorder (Number of Channels) stream: 12 face images/s Face Recognition Performance of AI by All channels (8 targets/s) Camera (Number of Channels) SMD Plus 4 channels: Secondary filtering for human and motor SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera All channels (16 targets/s) Vehicle License Plate Comparison ANPR by Camera (Number All channels (4 targets/s) of Channels) License Plate Database 1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist

Capacity

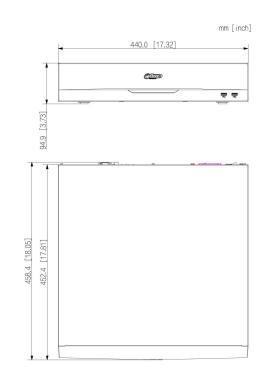
Audio and Video

Audio and Video				
Access Channel	32 channels			
Network Bandwidth	Al disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing			
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF			
Decoding Capability	Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 4-channel 6 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps; 32-channel 720p@30 fps Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 6 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel 1080p@30 fps; 16-channel 720p@30 fps; 32-channel D1p@30 fps			
Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.			
Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16			
Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon			
Compression Standard				
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG			
Audio Compression	G.711a; G.711u; PCM; G726			
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome; IE9 and later; Firefox			
Recording Playback				
Multi-channel Playback	Up to 16 channels			
Record Mode	General, motion detection; intelligent; alarm			
Backup Method	USB device and network			
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback			
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			

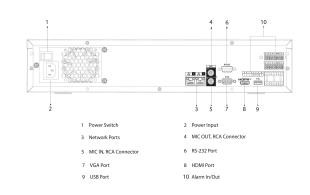
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Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
Port		
Audio Input	1-channel RCA	
Audio Output	1-channel RCA	
Alarm Input	16 channels	
Alarm Output	4 channels	
Disk 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	2 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	100–240 VAC, 50-60 Hz	
Power Consumption	<10 W(without HDD)	
Net Weight	6.34 kg (13.98 lb)	
Gross Weight	8.80 kg (19.40 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 x 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), non-condensing	
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	

Dimensions (mm[inch])



Panels



Ordering Information

Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR4832-EI	32CH 2U 8HDDs WizSense Network Video Recorder

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