

DHI-NVR4232-EI

32CH 1U 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.

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.

- · 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; people counting; stereo analysis; heat map.
- · Connected to the third-party network cameras.
- · Security baseline 2.3.



AI Search

Support Al 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.





Tochnical Specification Al disabled: 2-channel 16 MP@30 fps; 2-channel 12					
Technical Specification			MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel		
System	Industrial grade processor	Decoding Capability	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		
Main Processor	Industrial-grade processor Embedded Linux				
Operating System Operating Interface	Web; Local GUI		1080p@30 fps 1 HDMI, 1 VGA		
Al	1103, 2553. 00.		HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×		
	Face detection, face recognition, perimeter protection,	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Al by Recorder	and SMD Plus;		*Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.		
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16		
Perimeter Protection		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon		
Perimeter Performance Al		Compression Standa	Compression Standard		
by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		
Perimeter Performance of AI by Camera (Number of	8 channels	Audio Compression	G.711a; G.711u; PCM; G726		
Channels)		Network	Network		
Face Detection			HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; UDP;		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network Protocol	SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR;		
Face Detection Performance of AI by Recorder (Number of	1 channel (up to 12 face images/s each channel)		NVS; etc.); P2P; auto register		
		Mobile Phone Access	iOS; Android		
Channels) Face Detection		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK		
Performance of AI by	8 channels	Browser	Chrome; IE9 and later; Firefox		
Camera (Number of Channels)		Recording Playback	Recording Playback		
Face Recognition		Multi-channel Playback	Up to 16 channels		
	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.	Record Mode	General, motion detection; intelligent; alarm		
Face Database Capacity		Backup Method	USB device and network		
		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback		
Face Recognition Performance of AI by	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	Storage	Storage		
Recorder (Number of Channels)		Disk Group	Yes		
·	Stream 12 lace images/s	Alarm			
Face Recognition Performance of AI by	8 channels	Alailli	Motion detection; privacy masking; video loss; scene		
Camera (Number of Channels)		General Alarm	changing; PIR alarm; IPC external alarm		
SMD Plus		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map		
SMD Plus by Camera	8 channels	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		
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	Audio Output	1-channel RCA		
		Alarm Input	4 channels		
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Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF	Alarm Output	2 channels		



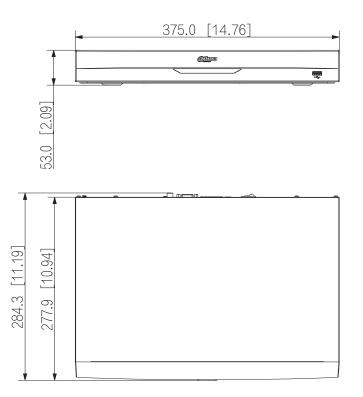
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HDD Interface	2 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.			
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	12 VDC, 4 A			
Power Consumption	<10 W(without HDD)			

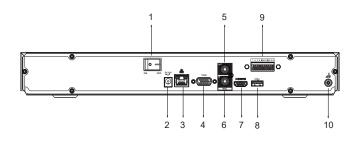
General				
Power Supply	12 VDC, 4 A			
Power Consumption	<10 W(without HDD)			
Net Weight	1.51 kg (3.33 lb)			
Gross Weight	2.76 kg (6.08 lb)			
Product Dimensions	375 mm × 284.3 mm × 53 mm (14.76" × 11.19" × 2.09") (W × L × H)			
Packaging Dimensions	433 mm × 141 mm × 366 mm (17.05" × 5.55" × 14.41") (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 WizSense NVR	DHI-NVR4232-EI	32CH 1U 2HDDs WizSense Network Video Recorder		

Dimensions (mm[inch])



Panels



- 1 Power Switch
- 2 Power Input
- 3 Network Port
- 4 VGA Port
- 5 AUDIO OUT, RCA Connector
- 6 AUDIO IN, RCA Connector
- 7 HDMI Port
- 8 USB Port10 Ground
- 9 Alarm In/Out

