



DHI-NVR4232-16P-EI

32CH 1U 16PoE 2HDDs WizSense Network Video Recorder





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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 Al function enabled)
- Max. decoding capability: 16 x 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



















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.

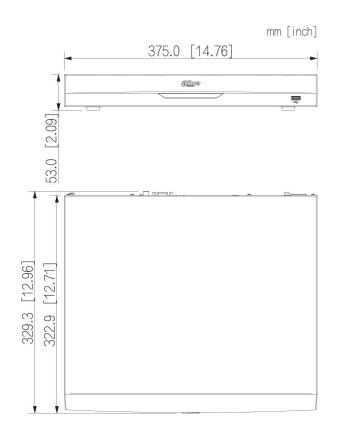
Technical Specification	n	Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF	
System			Al disabled: 2-channel 16 MP@30 fps; 2-channel 12	
Main Processor	Industrial-grade processor		MP@30 fps; 4-channel 8 MP@30 fps; 4-channel 6 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 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	
Operating System	Embedded Linux			
Operating Interface	Web, Local GUI	Decoding Capability		
Al				
Al by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;			
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	
Perimeter Protection			*Simultaneous/heterogeneous video sources output for	
Perimeter Performance AI by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Multi-screen Display	VGA and HDMI is configurable. 1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16	
Perimeter Performance of		TI'L A G	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF,	
Al by Camera (Number of Channels)	All channels (8 targets/s)	Third-party Camera Access	Canon	
Face Detection		·	Compression Standard	
race Detection		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Audio Compression	G.711a; G.711u; PCM; G726	
Face Detection		Network		
Performance of AI by Recorder (Number of Channels)	1 channel (up to 12 face images/s each channel)	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 Detection Performance of AI by	All channels (8 targets/s)	Mobile Phone Access	iOS; Android	
Camera (Number of Channels)		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK	
Face Recognition		Browser	Chrome; IE9 and later; Firefox	
	Up to 10 face databases with 20,000 images, with a	Recording Playback	Recording Playback	
Face Database Capacity	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.	Multi-channel Playback	Up to 16 channels	
		Record Mode	General, motion detection; intelligent; alarm	
Face Recognition	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	Backup Method	USB device and network	
Performance of AI by Recorder (Number of Channels)		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback	
Face Recognition		Storage		
Performance of AI by	All channels (8 targets/s)	Disk Group	Yes	
Camera (Number of Channels)		Alarm		
SMD Plus			Motion detection; privacy masking; video loss; scene	
	4 channels: Secondary filtering for human and motor	General Alarm	changing; PIR alarm; IPC external alarm	
SMD Plus by Recorder	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	
SMD Plus by Camera	All channels (16 targets/s)		Face detection; face recognition; perimeter protection;	
Audio and Video		Intelligent Alarm	SMD Plus; people counting; stereo analysis; heat map	
Access Channel	32 channels Al disabled: 256 Mbps incoming, 256 Mbps recording	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
Network Bandwidth	and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing	Port		
		Audio Input	1-channel RCA	

Audio Output	1-channel RCA			
Alarm Input	4 channels			
Alarm Output	2 channels			
Disk 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), 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			

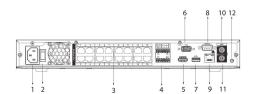
Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	DHI-NVR4232-16P-EI	32CH 1U 16PoE 2HDDs WizSense Network Video Recorder		

CE-LVD: EN 62368-1:2014

Dimensions (mm[inch])



Panels



- 1 Power Input
- 3 PoE Ports
- 5 HDMI Port
- 7 USB Port9 Network Port
- 11 AUDIO IN, RCA Connector
- 2 Power Switch
- 4 Alarm In/Out
- 6 VGA Port
- 8 RS-232 Port
- 10 AUDIO OUT, RCA Connector
- 12 Ground