

DHI-NVR4208-8P-EI

8CH 1U 8PoE 2HDDs 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 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.
- \cdot Access, storage or forwarding at 256 Mbps (180 Mbps when AI function enabled).
- \cdot Max. decoding capability: 16 \times 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.

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.

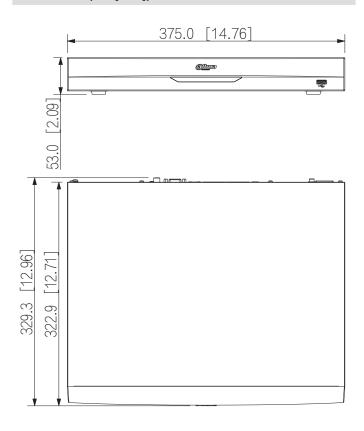
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Technical Specification			Deceding Constilling	Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps
System				
Main Processor	Industrial-grade processor		Decoding Capability	AI 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; 8-channel 1080p@30 fps
Operating System	Embedded Linux			
Operating Interface	Web; Local GUI			1 HDMI, 1 VGA
AI			Video Outout	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;		Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
AI 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 2nd Screen: 1/4/8/9
Perimeter Protection			Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon
Perimeter Performance Al by Recorder (Number of	2 channels, 10 IVS rules for each channel		Compression Standa	
Channels) Perimeter Performance of			Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Al by Camera (Number of Channels)	8 channels		Audio Compression	G.711a; G.711u; PCM; G726
Face Detection			Network	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard		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
Performance of AI by Recorder (Number of	1 channel (up to 12 face images/s each channel)		Mobile Phone Access	iOS; Android
Channels) Face Detection			Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK
Performance of AI by Camera (Number of	8 channels		Browser	Chrome; IE9 and later; Firefox
Channels)			Recording Playback	
Face Recognition			Multi-channel Playback	Up to 8 channels
Face Database Capacity	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
			Backup Method	USB device and network
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		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Performance of AI by Recorder (Number of			Storage	
Channels)	stream: 12 face images/s		Disk Group	Yes
Face Recognition Performance of AI by	8 channels		Alarm	
Camera (Number of Channels)			General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
SMD Plus SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
SMD Plus by Camera	lighting condition change 8 channels		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
Access Channel	8 channels		Port	
Access Channel Network Bandwidth	Al disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and		Audio Input	1-channel RCA
			Audio Input Audio Output	1-channel RCA
Posolution	180 Mbps outgoing 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF		Alarm Input	4 channels
Resolution			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)			
PoE Port	8 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	2.51 kg (5.53 lb)			
Gross Weight	3.66 kg (4.52 lb)			
Product Dimensions	375 mm × 329.3 mm × 53.0 mm (14.76" × 12.96" × 2.09") (W × L × H)			
Packaging Dimensions	451.0 mm × 147.0 mm × 425.0 mm (17.76" × 5.79" × 16.73") (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			

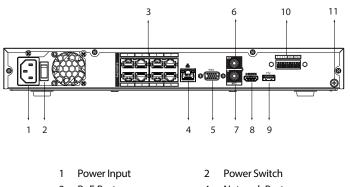
Dimensions (mm[inch])



Panels



Туре	Model	Description
8 Channels	DHI-NVR4208-	8CH 1U 8PoE 2HDDs WizSense
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- 3 PoE Ports
- 5 VGA Port 7 AUDIO IN, RCA Connector 8
- USB Port 9
- 11 Ground
- 4 Network Port
- 6 AUDIO OUT, RCA Connector
- HDMI Port
- 10 Alarm Input/Output

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