

DHI-NVR4208-8P-EI

8CH 1U 8PoE 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.
- · Al 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

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.



Wiz Sense | DHI-NVR4208-8P-EI

Technical Specification		Decoding Capability	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 Al enabled: 1-channel 16 MP@30 fps; 2-channel
System			
Main Processor	Industrial-grade processor		12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 8-channel
Operating System	Embedded Linux		1080p@30 fps
Operating Interface	Web; Local GUI		1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Al		Video Output	720
Al by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;		VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *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 2nd Screen: 1/4/8/9
Perimeter Protection		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon
Perimeter Performance AI by Recorder (Number of	2 channels, 10 IVS rules for each channel	Compression Standa	ard
Channels) Perimeter Performance of	8 channels	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Al by Camera (Number of 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
Face Detection Performance of AI by Recorder (Number of	1 channel (up to 12 face images/s each channel)	Mobile Phone Access	iOS; Android
Channels)		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK
Face Detection 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 8 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
Eaco Pocognition		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Face Recognition Performance of AI by Recorder (Number of 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	Storage	p.ayouti, s.mar cprayouti.
		Disk Group	Yes
Face Recognition Performance of AI by	8 channels	Alarm	
Camera (Number of		Aldilli	Motion detection; privacy masking; video loss; scene
Channels)		General Alarm	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
	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;
Audio and Video			buzzer; log; preset; email
Access Channel	8 channels	Port	
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 Input	1-channel RCA
		Audio Output	1-channel RCA
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF	Alarm Input	4 channels
		Alarm Output	2 channels

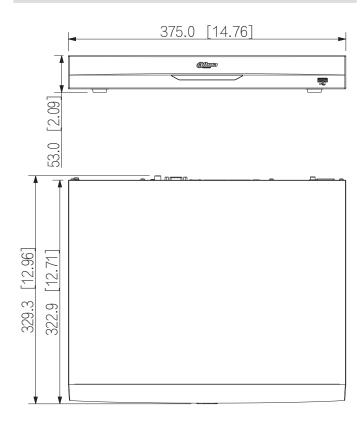


Wiz Sense | DHI-NVR4208-8P-EI

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			

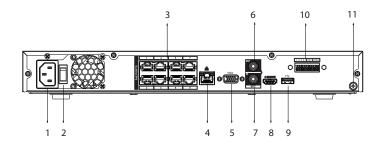
Ordering Information				
Туре	Model	Description		
8 Channels WizSense NVR	DHI-NVR4208- 8P-EI	8CH 1U 8PoE 2HDDs WizSense Network Video Recorder		

Dimensions (mm[inch])



Panels

www.dahuasecurity.com



- 1 Power Input
- 3 PoE Ports
- 5 VGA Port
- 7 AUDIO IN, RCA Connector 8
- 9 USB Port11 Ground
- 2 Power Switch
- 4 Network Port
- 6 AUDIO OUT, RCA Connector
 - HDMI Port
- 10 Alarm Input/Output



Rev 002.000 © 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice.