

DHI-NVR4108HS-P-EI

8CH Compact 1U 4PoE 1HDD 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.

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.

- \cdot Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- \cdot Access, storage or forwarding at 80 Mbps.
- \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.
- \cdot Connected to the third-party network cameras.
- · Security baseline 2.3.



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.

Wiz Sense | DHI-NVR4108HS-P-EI

Technical Specification			AI 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	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; 8-channel 1080p@30 fps
Operating System	Embedded Linux		
Operating Interface	Web; Local GUI		1 HDMI, 1 VGA
AI		Video Output	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 AI by Recorder (Number of 2 channels, 10 IVS rules for each channel		Compression Standard	
Channels)		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	
Face Detection 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 Pescerder (Number of	1 channel (up to 12 face images/s each channel)	Mobile Phone Access	iOS; Android
Recorder (Number of 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	
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
		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	Alarm	
Recorder (Number of Channels)	1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s	General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Face Recognition Performance of Al by Camera (Number of Channels)	8 channels	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
SMD Plus		Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
SMD Plus by Camera	8 channels	Port	
Audio and Video		Audio Input	1-channel RCA
Access Channel	8 channels	Audio Output	1-channel RCA
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoin	HDD Interface	1 SATA port, up to 16 TB.The maximum HDD capacity varies with environment temperature.
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p;	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
	960p; 720p; D1; CIF	HDMI	1

VGA

1

Wiz Sense | DHI-NVR4108HS-P-EI

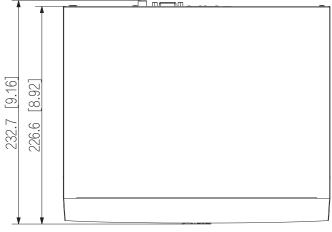
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)			
PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at			
General				
Power Supply	53 VDC, 1.226 A			
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 36W,the maximum output power of asingle port is 25.5W			
Net Weight	0.86 kg (1.90 lb)			
Gross Weight	1.88 kg (4.14 lb)			
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)			
Packaging Dimensions	333 mm × 89 mm × 315 mm (13.11" × 3.50" × 12.40") (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	DHI-NVR4108HS-	8CH Compact 1U 4PoE 1HDD
WizSense NVR	P-EI	WizSense Network Video Recorder

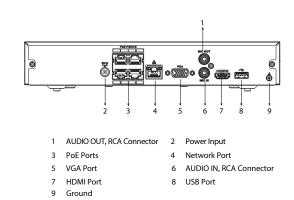
260.0 [10.24]

Dimensions (mm[inch])



.

Panels



Rev 002.000 © 2023 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product