

DHI-NVR4108HS-EI

8CH Compact 1U 1HDD WizSense Network Video Recorder



Series Overview

Dahua Lite series NVR is easy to install, cost effective and compatible with a wide variety of third-party devices, providing a great solution for small and medium surveillance systems. It is ideal for home safety, supermarkets, warehouses, educational institutions, and financial institutions.

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.

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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- · Access, storage or forwarding at 80 Mbps
- 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



















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		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 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 Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 6	
Main Processor	Industrial-grade processor			
Operating System	Embedded Linux	Decoding Capability		
Operating Interface	Web, Local GUI			
Al			MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 8-channel 1080p@30 fps	
Al by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;		1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.	
Perimeter Protection		Multi care an Diamlau	1st Screen: 1/4/8/9	
Perimeter Performance Al by Recorder (Number of	2 channels, 10 IVS rules for each channel	Multi-screen Display	2nd Screen: 1/4/8/9	
Channels)		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon	
Perimeter Performance of AI by Camera (Number of	All channels (8 targets/s)	Compression Standar	Compression Standard	
Channels)		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Face Detection		Audio Compression	G.711a; G.711u; PCM; G726	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network		
Face Detection Performance of AI by Recorder (Number of	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	
Channels)		Mobile Phone Access	iOS; Android	
Face Detection Performance of AI by		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK	
Camera (Number of Channels)	All channels (8 targets/s)	Browser	Chrome; IE9 and later; Firefox	
Face Recognition		Recording Playback	Recording Playback	
	Up to 10 face databases with 20,000 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.	Multi-channel Playback	Up to 8 channels	
Face Database Capacity		Record Mode	General, motion detection; intelligent; alarm	
		Backup Method	USB device and network	
Face Recognition Performance of AI by	8-channel FD (by camera) + FR (by recorder),image stream: 12 face images/s	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback	
Recorder (Number of Channels)	1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Alarm		
Face Recognition Performance of AI by	All channels (8 targets/s)	General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
Camera (Number of Channels)		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception	
SMD Plus			Face detection; face recognition; perimeter protection;	
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	SMD Plus; people counting; stereo analysis; heat map Record; snapshot; IPC external alarm output; audio;	
SMD Plus by Camera	All channels (16 targets/s)	Alarm Linkage	buzzer; log; preset; email	
Audio and Video		Port		
Access Channel	8 channels	Audio Input	1-channel RCA	
Access Chambel	80 Mbps incoming, 80 Mbps recording and 80 Mbps	Audio Output	1-channel RCA	
Network Bandwidth	outgoing	Disk Interface	1 SATA port, up to 16 TB.The maximum HDD capacity varies with environment temperature.	

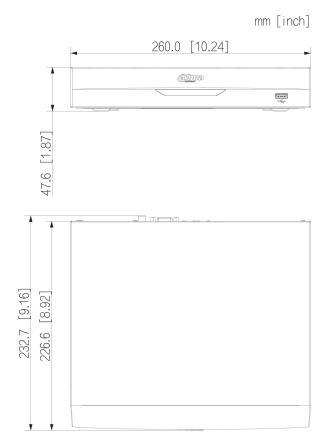
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USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
General	

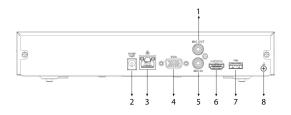
General				
Power Supply	12 VDC, 2A			
Power Consumption	<7.8 W (without HDD)			
Net Weight	0.84 kg (1.85 lb)			
Gross Weight	1.43 kg (3.15 lb)			
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)			
Packaging Dimensions	333 mm × 89 mm × 315 mm (13.11" × 3.50" × 12.40") (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), 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 CE-LVD: EN 62368-1:2014			

Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR4108HS-EI	8CH Compact 1U 1HDD WizSense Network Video Recorder			

Dimensions (mm[inch])



Panels



- 1 AUDIO OUT, RCA Connector 2 Power Input
- 3 Network Port 4 VGA Port
- 5 AUDIO IN, RCA Connector 6 HDMI Port
- 7 USB Port
- 8 Ground