

DHI-N420108HS-EI2

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
- 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



















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
System			
Main Processor Operating System Operating Interface	Industrial-grade processor Embedded Linux Web, Local GUI	Decodi	ng Capability
Al by Recorder Al by Camera	Face detection, face recognition, perimeter protection, and SMD Plus; Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Video Outpu	ut
Perimeter Protection		Multi-screen D	Nicolay
Perimeter Performance Al by Recorder (Number of	2 channels, 10 IVS rules for each channel	Mutt-screen Disp	lay
Channels)		Third-party Camera A	ccess
Perimeter Performance of Al by Camera (Number of	All channels (8 targets/s)	Compression Star	ndaı
Channels)	, g .,	Video Compression	
Face Detection		Audio Compression	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network	
Face Detection Performance of Al by Recorder (Number of	1 channel (up to 12 face images/s each channel)	Network Protocol	
Channels)		Mobile Phone Access	
Face Detection Performance of AI by	All channels (8 targets/s)	Interoperability	
Camera (Number of Channels)		Browser	
Face Recognition		Recording Playback	
<u> </u>	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	Multi-channel Playback	
Face Database Capacity		Record Mode	
	state can be added to each face image.	Backup Method	
Face Recognition Performance of AI by Recorder (Number of	8-channel FD (by camera) + FR (by recorder), image stream: 12 face images/s	Playback Mode	
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	
Camera (Number of Channels) SMD Plus	nera (Number of innels)		
SIVID FIUS	4 channels: Secondary filtering for human and motor	Intelligent Alarm	
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	
SMD Plus by Camera	All channels (16 targets/s)	Port	
Audio and Video		Port	
Access Channel	8 channels	Audio Input	
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing	Audio Output	
		Disk Interface	

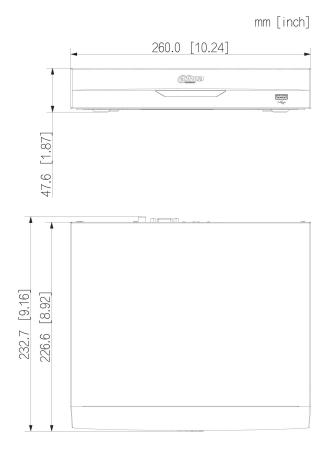
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USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
HDMI	1
VGA	1
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
General	

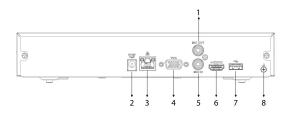
General				
Power Supply	12 VDC, 2A			
Power Consumption	<7.8 W (without HDD)			
Net Weight	0.84 kg (1.85 lb)			
Gross Weight	1.43 kg (3.15 lb)			
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)			
Packaging Dimensions	333 mm × 89 mm × 315 mm (13.11" × 3.50" × 12.40") (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-N420108HS-EI2	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 Grou