

DHI-N420208-8P-EI2

8CH 1U 8PoE 2HDDs 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 256 Mbps (180 Mbps when Al function enabled)
- 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	n		Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF
System				
Main Processor	Industrial-grade processor			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
Operating System	Embedded Linux		Decoding Capability	
Operating Interface	Web, Local GUI			Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 6
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;		Video Output	1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 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			
Perimeter Protection				1st Screen: 1/4/8/9
Perimeter Performance AI			Multi-screen Display	2nd Screen: 1/4/8/9
by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon
Perimeter Performance of	All channels (8 targets/s)		Compression Standard	
Al by Camera (Number of Channels)	All charmers (o targets/s)		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;		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	
ruce necognition	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 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
Recorder (Number of Channels)			Storage	
Face Recognition			Disk Group	Yes
Performance of AI by	All channels (8 targets/s)		Alarm	
Camera (Number of Channels)			General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
SMD Plus				Camera disconnection; storage error; disk full; IP
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Anomaly Alarm	conflict; MAC conflict; login locked; and cybersecurity exception
SMD Plus by Camera	All channels (16 targets/s)		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;
Access Channel	8 channels		, admi emikase	buzzer; log; preset; email
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		Port	
			Audio Input	1-channel RCA
			Audio Output	1-channel RCA

Alarm Input	4 channels
Alarm Output	2 channels
Disk 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

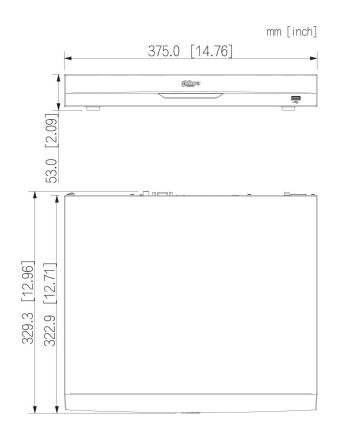
General

Power Supply 100–240 VAC, 47-63 Hz 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), non-condensing Installation Rack or desktop FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN EC 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			
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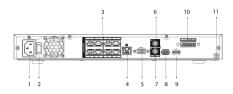
Ordering Information

Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-N420208-8P-EI2	8CH 1U 8PoE 2HDDs WizSense + Network Video Recorder

Dimensions (mm[inch])



Panels



- Power Input
 PoE Ports
- Power Switch
- 5 VGA Port
- Network Port AUDIO OUT, RCA Connector
- HDMI Port 10 Alarm Input/Output
- 9 USB Port 11 Ground
- AUDIO IN, RCA Connector

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