

# DHI-NVR4208-EI

### 8CH 1U 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
- 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**

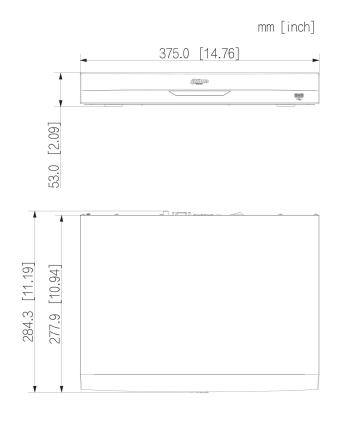
Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.

Technical Specification			Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p;
System				960p; 720p; D1; CIF
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 Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 3-channel 6 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 8-channel 1080p@30 fps
Operating System	Embedded Linux		Decoding Capability	
Operating Interface	Web, Local GUI			
Al				
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	VI	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Perimeter Protection				1st Screen: 1/4/8/9
Perimeter Performance Al	2 channels, 10 IVS rules for each channel		Multi-screen Display	2nd Screen: 1/4/8/9
by Recorder (Number of Channels)			Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon
Perimeter Performance of Al by Camera (Number of	All channels (8 targets/s)		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 Al 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	All channels (8 targets/s)		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK
Camera (Number of Channels)			Browser	Chrome; IE9 and later; Firefox
Face Recognition			Recording Playback	
race necognition	Up to 10 face databases with 20,000 images, with a		Multi-channel Playback	Up to 8 channels
Face Database Capacity	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
			Backup Method	USB device and network
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		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
			Storage	
Face Recognition	All channels (8 targets/s)		Disk Group	Yes
Performance of AI by Camera (Number of			Alarm	
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		·	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	1 shannel DCA
			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)		
General			
Power Supply	12 VDC, 4 A		
Power Consumption	<10 W(without HDD)		
Net Weight	1.51 kg (3.33 lb)		
Gross Weight	2.76 kg (6.08 lb)		
Product Dimensions	375 mm × 284.3 mm × 53 mm (14.76" × 11.19" × 2.09") (W × L × H)		
Packaging Dimensions	433 mm × 141 mm × 366 mm (17.05" × 5.55" × 14.41") (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-NVR4208-EI	8CH 1U 2HDDs WizSense Network Video Recorder		

## Dimensions (mm[inch])



#### **Panels**

