

# DHI-NVR4216-EI

# 16CH 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 x 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

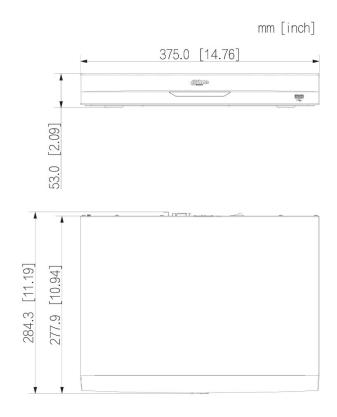
Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.

Technical Specificatio	n	0.10	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p;	
System		Resolution	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	
Operating System	Embedded Linux		MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps	
Operating Interface	Web, Local GUI	Decoding Capability	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; 12-channel 1080p@30 fps; 16-channel 720p@30 fps	
Al				
	Face detection, face recognition, perimeter protection,			
Al by Recorder	and SMD Plus;		1 HDMI, 1 VGA	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Video Output	HDMI: $3840 \times 2160$ , $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ VGA: $1920 \times 1080$ , $1280 \times 1024$ , $1280 \times 720$ *Simultaneous/heterogeneous video sources output for	
Perimeter Protection			VGA and HDMI is configurable.	
Perimeter Performance Al by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Multi-screen Display	1st Screen: 1/4/8/9/16 2nd Screen: 1/4/8/9/16	
Perimeter Performance of		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon	
Al by Camera (Number of Channels)	All channels (8 targets/s)	Compression Standa	Compression Standard	
Face Detection		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Face Attributes	Gender; age group; glasses; expressions; face mask;	Audio Compression	G.711a; G.711u; PCM; G726	
race Attributes	beard	Network	Network	
Face Detection Performance of AI by Recorder (Number of Channels)	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	
Face Detection Performance of AI by Camera (Number of	All channels (8 targets/s)	Mobile Phone Access	iOS; Android	
		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK	
Channels)		Browser	Chrome; IE9 and later; Firefox	
Face Recognition		Recording Playback	Recording Playback	
Face Database Canacity	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 16 channels	
Face Database Capacity		Record Mode	General, motion detection; intelligent; alarm	
Face Recognition	8-channel FD (by camera) + FR (by recorder),image stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video	Backup Method	USB device and network	
Performance of AI by Recorder (Number of		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback	
Channels)	stream: 12 face images/s	Storage		
Face Recognition Performance of Al by	All channels (8 targets/s)	Disk Group	Yes	
Camera (Number of Channels)		Alarm		
SMD Plus		General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external 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	Anomaly Alarm	Camera disconnection; storage error; disk full; IP 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;	
Audio and Video			SMD Plus; people counting; stereo analysis; heat map  Record; snapshot; IPC external alarm output; audio;	
Access Channel	16 channels	Alarm Linkage	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)			
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-NVR4216-EI	16CH 1U 2HDDs WizSense Network Video Recorder		

# Dimensions (mm[inch])



# **Panels**

