



# DHI-NVR4832-EI

## 32CH 2U 8HDDs WizSense Network Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

#### **Series Overview**

NVR4000-EI series is a new generation of network recorders that offers powerful decoding capabilities, and strong bandwidth. It features high-precision face recognition, perimeter protection, and SMD (Smart Motion Detection), which can distinguish target vehicles and humans from other types in real time. When connected with select IPC cameras, Quick Pick technology becomes available, allowing human and vehicle targets to be easily searched for and picked out. This network recorder is not only cost-effective, but also compatible with a wide variety of third-party devices, making it a great choice for small and medium-sized businesses.

#### **Functions**

#### **Face Detection**

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

#### **Perimeter Protection**

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

- · 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).
- $\cdot$  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; ANPR; people counting; stereo analysis; heat map.
- · Connected to the third-party network cameras.
- · Security baseline 2.3.



#### **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.

#### **AI 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.

#### **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.

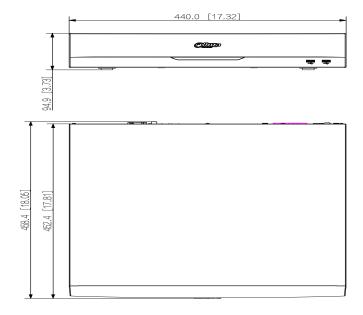
Technical Specification			Network Bandwidth	Al disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing
System	ystem			
Main Processor	Industrial-grade processor		Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF
Operating System	Embedded Linux			Al disabled: 2-channel 16 MP@30 fps; 2-channel 12
Operating Interface	Web; Local GUI			MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel
Al	Al			1080p@30 fps
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus		Decoding Capability	Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 12-channel
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map			1080p@30 fps 1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Perimeter Protection	Perimeter Protection			720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Perimeter Performance AI by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel			*Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Perimeter Performance of Al by Camera (Number of	8 channels		Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9/16
Channels)	o channels		Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon
Face Detection	Face Detection		Compression Standard	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Detection	1 channel (up to 12 face images/s each channel)		Audio Compression	G.711a; G.711u; PCM; G726
Performance of AI by Recorder (Number of Channels)			Network	
Face Detection Performance of AI by Camera (Number of Channels)	8 channels		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 Recognition			Mobile Phone Access	iOS; Android
. 466 . 1666 8. 11416 1.			Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK
5 5 1 6 "	Up to 10 face databases with 200,00 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.  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		Browser	Chrome; IE9 and later; Firefox
Face Database Capacity			Recording Playback	
Face Decembrian			Multi-channel Playback	Up to 16 channels
Face Recognition Performance of AI by Recorder (Number of			Record Mode	General, motion detection; intelligent; alarm
Channels)			Backup Method	USB device and network
Face Recognition Performance of AI by Camera (Number of Channels)	8 channels		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback
			Storage	
SMD Plus			Disk Group	Yes
	4 channels: Secondary filtering for human and motor		Alarm	
SMD Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and lighting condition change		General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
SMD Plus by Camera	8 channels		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity
Vehicle License Plate Comparison				exception
ANPR by Camera (Number of Channels)	4 channels		Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
License Plate Database Capacity	Create up to 20,000 plate numbers.     Blocklist and allowlist		Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
Audio and Video			Port	
Access Channel	32 channels		Audio Input	1-channel RCA

## Wiz Sense | DHI-NVR4832-EI

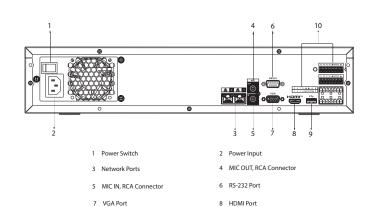
Audio Output	1-channel RCA			
Alarm Input	16 channels			
Alarm Output	4 channels			
HDD Interface	8 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.			
RS-232	1			
RS-485	1			
USB	3 (2 front USB 2.0 ports, 1 rear USB 3.0 port)			
HDMI	1			
VGA	1			
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	100-240 VAC, 50-60 Hz			
Power Consumption	<10 W(without HDD)			
Net Weight	6.34 kg (13.98 lb)			
Gross Weight	8.8 kg (19.40 lb)			
Product Dimensions	440.0 mm × 458.4 mm x 94.9 mm (17.32" × 18.05" × 3.73") (W × D × H)			
Packaging Dimensions	570.0 mm $\times$ 570.0 mm $\times$ 226.0 mm (22.44" $\times$ 22.44" $\times$ 8.90") (W $\times$ D $\times$ 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)			
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		
32 Channels WizSense NVR	DHI-NVR4832-EI	32CH 2U 8HDDs WizSense Network Video Recorder		

## Dimensions (mm[inch])



### **Panels**



10 Alarm In/Out

9 USB Port