

# DHI-NVR4832-16P-4KS2/I

32 Channel 2U 16PoE 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**

This AI network video recorder is a highly cost-effective product, providing functions such as local live view, multi-screen display, real-time storage on local HDD, fast operation by mouse, and remote management and control. This product is suitable for face detection and recognition at entrances and exits, and perimeter protection of people and vehicles.

#### **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 (160 Mbps when Al function enabled)
- Max. decoding capability: 10 × 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; ANPR; people counting; stereo analysis; heat map
- · Support IPC UPnP, 16PoE ports
- Security baseline 2.1



#### **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

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

#### Smart Fan

The NVR is equipped with a smart fan to achieve high cooling efficiency. It automatically turns on or turns off according to CPU and ambient temperature. The fan is long-lasting and low noise, reducing maintenance costs and improving the user experience.



## Wiz Sense | DHI-NVR4832-16P-4KS2/I

Technical Specification  Al off: 1 channel × 16MP@20 fps; 1 channel × 12MP@20 fps; 1 channel × 1					
System			fps; 2 channels × 8MP@30 fps; 4 channels × 5MP@30 fps; 5 channels × 4MP@30 fps; 10 channels × 1080p@30		
Main Processor	Industrial-grade embedded processor	Decoding Capability	fps Al on: 1 channel × 16MP@20 fps; 1 channel × 12MP@20 fps; 2 channel × 8MP@30 fps; 3 channel × 5MP@30 fps;		
Operating System	Embedded Linux		4 channels × 4MP@30 fps ; 8 channels × 1080p@30 fps		
Operation Interface	Web; local GUI	Video Output	1-ch VGA output and 1-ch HDMI output; simultaneous/ heterogeneous video sources output for VGA and HDMI is configurable		
Al		Multi-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9		
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Third Party Camera Access	Panasonic; Sony; Samsung; Axis, Pelco; Arecont; ONVIF; Canon; RTSP		
Al by Device	Face detection; face recognition; perimeter protection; SMD Plus	Compression			
Perimeter Protection		Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG		
Perimeter Performance		Audio	PCM; G.711A; G.711U; G.726		
Al by Device(Number of Channels)	2	Network			
Perimeter Performance of AI by Camera (Number of Channels)	8	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; 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		Mobile Phone Access	Android; iOS		
Face Attributes	6 attibutes: Gender; age group (6); glasses; expressions (8); mouth mask; beard	Interoperability	ONVIF (profile T/S/G); CGI; SDK		
Face Detection Performance of AI by	1 (up to 12 face images/second)	Browser	Chrome; IE9 or later; firefox		
Device (1080P) (Number of Channels)	1 (up to 12 face finages/second)	Record Playback			
Face Detection Performance of AI by		Multi-channel Playback	Up to 16 channels		
Camera (Number of Channels)	8	Record Mode	eq:manual:manu		
Face Recognition		Storage Method	Local HDD; network		
Face Database Capacity	Up to 10 face databases with 20,000 images	Backup	USB device		
Face Recognition Performance of AI by Device (1080P) (Number of Channels)	1 (up to 4 face images/second)	Playback Function	Play; pause; stop; fast forward; fast backward; rewind; play by frame     Full screen; backup (cut/file); partially enlarge; audio on/off		
Face Recognition Performance of AI by	8	Alarm			
Camera (Number of Channels)	O	General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm		
SMD Plus		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict;		
SMD Plus by Device	4	Anomaly Alarm	MAC conflict; login locked; and cybersecurity exception		
SMD Plus by Camera	16-channel SMD Plus (AI by camera): Detects tripwire and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map		
omb riad by camera		Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email		
ANPR		External Port			
ANPR by Camera	4	HDD	8 SATA ports, up to 10 TB. The maximum HDD capacity varies with environment temperature		
Video		USB	2 front USB 2.0 ports, 1 rear USB 3.0 port		
Access Channel	32 channels	HDMI	1 (max. resolution: 4K)		
Network Bandwidth	Al off: Access: 256 Mbps; Storage: 256 Mbps; Forward: 256 Mbps	VGA	1		
	Al on: Access: 160 Mbps; Storage: 160 Mbps; Forward: 160 Mbps	Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port		
Resolution	16MP; 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1	PoE	16 × PoE ports		



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RCA Input	1	
RCA Output	1	
Alarm Input	16	
Alarm Output	4	
RS-232	1 channel, used to debug and pass through serial data	
RS-485	1 channel, used to control PTZ, and it supports multiple protocols	

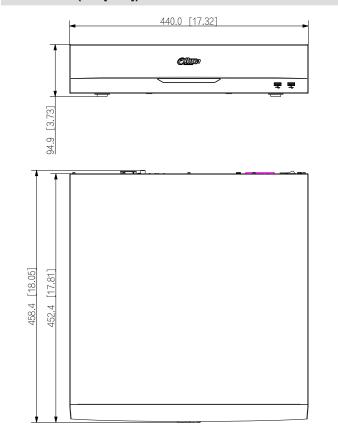
#### General Parameter

Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz	
Power Consumption	Total output of NVR is $\leq$ 10 W (without HDD) Total output power of PoE is 130W, the maximum output power of a single port is 25.5 W	
Net Weight	6.72 kg (19.02 lb)	
Gross Weight	9.31 kg (26.45 lb)	
Product Dimensions	440.0 mm × 458.4 mm x 94.9 mm (17.32" × 18.05" × 3.73") (W × L × H)	
Package Dimensions	570.0 mm $\times$ 570.0 mm $\times$ 226.0 mm (22.44" $\times$ 22.44" $\times$ 8.90") (W $\times$ L $\times$ H)	
Operating Conditions	-10 °C to +55 °C (+10 °F to +131 °F)	
Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)	
Operating Humidity	10%-93%	
Storage Humidity	30%-85%	
Operating Altitude	3,000 m (9,843 ft)	
Installation	Desktop/Rack mount	
Certifications	FCC:47 CFR FCC Part15,SubpartB,Class A CE-EMC:EN 55032:2015,Class A;EN IEC 61000- 3-2:2019;EN 61000-3-3:2013+A1:2019;EN 55024:2010+A1:2015;EN 55035:2017;EN 50130- 4:2011+A1:2014 CE-LVD:EN 62368-1:2014+A11:2017	

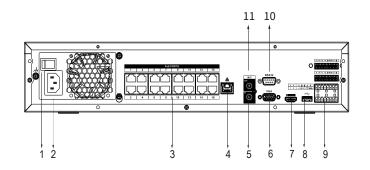
### **Ordering Information**

Туре	Model	Description
32 Channel	DHI-NVR4832-16P-	32 Channel 2U 16PoE 8HDDs WizSense
WizSense NVR	4KS2/I	Network Video Recorder

#### Dimensions (mm[inch])



#### **Panels**



- 1 Power Switch
- 3 PoE Ports
- 5 AUDIO IN, RCA Connector
- 7 HDMI Port
- 9 Alarm In/Out
- 11 AUDIO OUT, RCA Connector
- 2 Power Input
- 4 Network Port
- 6 VGA Port
- 8 USB Port
- 10 RS-232 Port



Rev 001.001

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