

DHI-NVR4832-4KS2/I

32 Channel 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

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
- · 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.

Al 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.

Technical Specification			Al off: 1 channel × 16MP@20 fps; 1 channel × 12MP@20 fps; 2 channels × 8MP@30 fps; 4 channels × 5MP@30 fps; 5 channels × 4MP@30 fps; 10 channels × 1080p@30 fps	
System		Decoding Capability		
Main Processor	Industrial-grade embedded processor	becoming capability	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 1-ch VGA output and 1-ch HDMI output; simultaneous/	
Operation Interface	Web; local GUI	Video Output	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	
AI 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: ONVIE	
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	
AI by Device(Number of Channels)	2	Network		
Perimeter Performance of Al 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 illiages/secoliu)	Record Playback		
Face Detection Performance of AI by		Multi-channel Playback	Up to 16 channels	
Camera (Number of Channels)	8	Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent)	
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	0	Alarm	Alarm	
Camera (Number of Channels)	8	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; MAC conflict; login locked; and cybersecurity exception	
SMD Plus by Device	4 16-channel SMD Plus (AI by camera): Detects tripwire	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
SMD Plus by Camera	and intrustion of human or vehicle; filters false alarms caused by leaves, raindrops and change of brightness away	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
ANPR		External Port	, 3,1	
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	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports	
Resolution	16MP; 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1	RCA Input	1	

Wiz Sense | DHI-NVR4832-4KS2/I

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

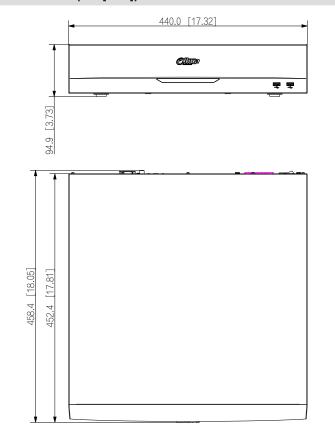
General Parameter

Power Supply	Single, 100 V–240 V AC, 50 Hz–60 Hz			
Power Consumption	Total output of NVR is \leq 8 W (without HDD)			
Net Weight	6.34 kg (18.01 lb)			
Gross Weight	8.92 kg (25.34 lb)			
Product Dimensions	440.0 mm × 458.4 mm × 94.9 mm (17.32" × 18.05" × 3.73") (W × L × H)			
Package Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (W × L × 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			

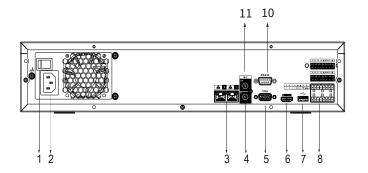
Ordering Information

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

Dimensions (mm[inch])



Panels



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