

DHI-NVR4432-4KS2/I

32 Channel 1.5U 4HDDs WizSense Network Video Recorder



Wiz Sense

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
- 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
- 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.

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Technical Specification System De Main Processor Industrial-grade embedded processor Embedded Linux **Operating System** Vid Web; local GUI **Operation Interface** AI Mu Face detection; face recognition; perimeter protection; AI by Camera SMD Plus; ANPR; people counting; stereo analysis; heat Thi map Face detection; face recognition; perimeter protection; Сс AI by Device SMD Plus Vid Perimeter Protection Perimeter Performance Au AI by Device(Number of 2 Ne Channels) Perimeter Performance of AI by Camera (Number of 8 Net Channels) Face Detection Mo 6 attibutes: Gender; age group (6); glasses; expressions Face Attributes (8); mouth mask; beard Inte **Face Detection** Bro Performance of AI by 1 (up to 12 face images/second) Device (1080P) (Number Re of Channels) Face Detection Mι Performance of AI by 8 Camera (Number of Red Channels) Face Recognition Sto Face Database Capacity Up to 10 face databases with 20,000 images Ва Face Recognition Performance of AI by 1 (up to 4 face images/second) Device (1080P) (Number Pla of Channels) Face Recognition Performance of AI by 8 Ala Camera (Number of Channels) Ge **SMD** Plus An SMD Plus by Device 4 16-channel SMD Plus (AI by camera): Detects tripwire Int and intrustion of human or vehicle; filters false alarms SMD Plus by Camera caused by leaves, raindrops and change of brightness awav Ala ANPR Ex ANPR by Camera 4 HD Video US Access Channel 32 channels HD Al off: Access: 256 Mbps; Storage: 256 Mbps; Forward: VG 256 Mbps Network Bandwidth Al on: Access: 160 Mbps; Storage: 160 Mbps; Forward: Ne 160 Mbps Resolution 16MP; 12MP; 8MP; 5MP; 4MP; 3MP; 2MP; 720p; D1 RC

ecoding Capability	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 Al on: 1 channel × 16MP@20 fps; 1 channel × 12MP@20 fps; 2 channels × 8MP@30 fps; 3 channel × 5MP@30 fps; 4 channels × 4MP@30 fps; 8 channels × 1080p@30 fps	
ideo Output	1-ch VGA output and 1-ch HDMI output; simultaneous/ heterogeneous video sources output for VGA and HDMI is configurable	
lulti-screen Display	1st Screen: 1/4/8/9/16/25/36 2nd Screen: 1/4/8/9	
hird Party Camera Access	Panasonic; Sony; Samsung; Axis, Pelco; Arecont; ONVIF; Canon; RTSP	
ompression		
ideo	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG	
udio	PCM; G.711A; G.711U; G.726	
letwork		
etwork 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	
Iobile Phone Access	Android; iOS	
teroperability	ONVIF(profile T/S/G); CGI; SDK	
rowser	Chrome; IE9 or later; firefox	
ecord Playback		
Iulti-channel Playback	Up to 16 channels	
ecord Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent)	
orage Method	Local HDD; network	
ackup	USB device	
ayback Function	 Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (cut/file) ; partially enlarge; audio on/off 	
larm		
eneral Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
nomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception	
telligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
larm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
xternal Port		
DD	4 SATA ports, up to 10 TB. The maximum HDD capacity varies with environment temperature	
SB	1 front USB 2.0 port, 1 rear USB 3.0 port	
DMI	1 (max. resolution: 4K)	
GA	1	
etwork	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports	
CA Input	1	

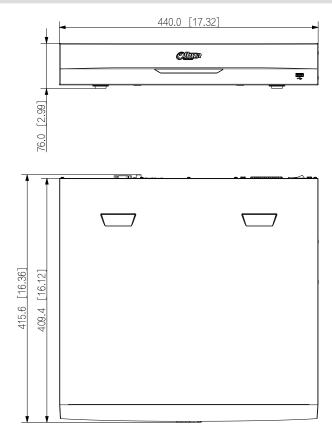
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RCA Output	1	
Alarm Input	16	
Alarm Output	4	
RS-232	1 channel, used to debug and pass through serial data	
RS-485	1 channel, used to control PTZ, and it supports multiple protocols	
General Parameter		
Power Supply	Single, 100 V–240 V AC, 50 Hz–60 Hz	
Power Consumption	Total output of NVR is \leq 8 W (without HDD)	
Net Weight	4.25 kg (9.35 lb)	
Gross Weight	6.48 kg (18.41 lb)	
Product Dimensions	440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W × L × H)	
Package Dimensions	529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 9.31") (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-NVR4432-	32 Channel 1.5U 4HDDs WizSense
WizSense NVR	4KS2/I	Network Video Recorder

Dimensions (mm[inch])



Panels

