

DHI-NVR5416/5432/5464-4KS2

16/32/64 Channel 1.5U 4HDDs 4K & H.265 Pro Network Video Recorder



Dahua's new NVR5000-4KS2 network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This professional NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Series Overview

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

Functions

Perimeter Protection by Camera

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Face Recognition by Camera

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

SMD Plus by Camera

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.

Video Metadata by Camera

With deep learning algorithm, Dahua video metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

- 16/32/64-channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264/MJPEG; H.265 auto switch
- Max 320 Mbps incoming bandwidth
- Up to 24MP resolution for live view and playback
- 1-channel fisheye dewarping (AI by NVR)
- Al by Camera: Perimeter protection; face detection and recognition; SMD Plus; video metadata; ANPR; people counting; stereo analysis; crowd distribution; heat map



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 block/allowlist mode, searching target vehicles from recorded video.

Fisheye Dewarping

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The device offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

People Counting by Camera

With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Stereo Analysis by Camara

With deep learning algorithm and scene 3-dimensional information, Dahua stereo analysis technology can recognize people's behaviors, such as fall detection, violence detection, strand detection, and space exception, and then generates alarm signals and triggers linkage.

DMSS

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Pro Series | DHI-NVR5416/5432/5464-4KS2

Technical Specification

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System			
Main Processor	Industrial embedded micro-processor		
Operating System	Embedded Linux		
Operation Interface	Web; local GUI		
Perimeter Protection by	Camera		
Performance	16/20/20 channels		
AI Search	Search for pictures by channel, time and event type		
Face Recognition by Camera			
Performance	14 channels		
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard		
Al Search	Search for pictures by channel, time and face attributes		
SMD Plus by Camera			
Performance	16/32/64 channels		
AI Search	Search by target classification (human, vehicle)		
Video Metadata by Came	era		
Performance	16 channels		
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella		
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region		
Non-motor Vehicle	Type; color; number of passengers; helmet		
AI Search	Supports searching for target video by metadata		
ANPR by Camera			
Performance	4 channels		
Stereo Analysis by Came	ra		
Performance	16 channels		
Al Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence detection)		
Video			
Access Channel	16/32/64		
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding		
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more		
Decoding Capability	16-channel@1080P (30 fps)		
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA1: 1920 × 1080; 1280 × 1024; 1280 × 720 HDMI2/VGA2: 1920 × 1080 VGA1/HMDI1 homologous output, VGA2/HDMI2 homologous output, and VGA1/HDMI1 and VGA2/ HDMI2 supports heterogeneous output		
Multi-screen Display	1st Screen: 16-channel: 1/4/8/9/16 32-channel: 1/4/8/9/16/25/36 64-channel: 1/4/8/9/16/25/36/64		
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Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more		
Compression			
Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG		
Audio	PCM; G.711A; G.711U; G.726		
Network			
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 (Supports Dahua IP camera, DVR, NVS, and more.) ; P2P		
Mobile Phone Access	Android; iOS		
Interoperability	ONVIF (profile T/S/G); CGI; SDK		
Browser	Chrome; IE9 or later; Firefox		
Record Playback			
Multi-channel Playback	1/4/9/16		
Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent; POS)		
Storage Method	Local HDD and network		
Backup	USB device		
Playback Function	 Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (cut/file) ; partially enlarge; audio on/off 		
Storage			
Disk Group	Yes		
Alarm			
General Alarm	Motion detection; privacy masking; video loss; local alarm; PIR alarm; IPC alarm		
Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly		
Intelligent Alarm	Perimeter protection; face detection; face recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle) ; ANPR; people counting; stereo analysis; crowd distribution; heat map		
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email		
External Port			
Audio Input	1 channel, RCA connector		
Audio Output	2 channels, RCA connector, which supports voice intercom output		
HDD	4 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature		
Alarm Input	16 channels		
Alarm Output	6 channels		
eSATA	1 eSATA		
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		
USB	1 front USB 2.0 port, 2 rear USB 3.0 ports		

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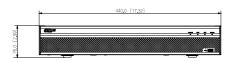
HDMI	2	
VGA	2	
Network	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports	
General Parameter		
Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz	
Power Consumption	< 16.7W (without HDD)	
Net Weight	4.3 kg (9.5 lb) (without HDD)	
Gross Weight	7 kg (15.4 lb) (without HDD)	
Product Dimensions	440 mm × 412.2 mm × 76.0 mm (17.3" × 16.2" × 3.0")	
Package Dimensions	522 mm × 492 mm × 200 mm (20.6" × 19.4" × 7.9")	
Operating Temperature	-10°C to +55°C (+14°F to +131°F)	
Storage Temperature	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	10%–93% (RH)	
Storage Humidity	30%-85% (RH)	
Operating Altitude	3,000 m (9,843 ft)	
Certifications	CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014 UL: UL 60950-1	

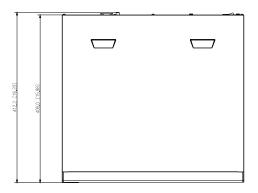
Panels 11 9 10 9 8 **Э**-ГӨ 2 ż 4 5 6 7 1 1 Power Switch 2 Power Input 3 Network Ports 4 USB Ports AUDIO IN, RCA Connector 5 HDMI Ports 6 RS-232 Port 8 7 Alarm In/Out 10 AUDIO OUT, RCA Connector 9 VGA Ports 11 eSATA Port

Ordering Information

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Туре	Model	Description
16 Channel NVR	DHI-NVR5416-4KS2	16 Channel 1.5U 4K & H.265 Pro Network Video Recorder
32 Channel NVR	DHI-NVR5432-4KS2	32 Channel 1.5U 4K & H.265 Pro Network Video Recorder
64 Channel NVR	DHI-NVR5464-4KS2	64 Channel 1.5U 4K & H.265 Pro Network Video Recorder

Dimensions (mm[inch])





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