

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.



Technical Specification		Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Areco ONVIF, Canon and more
ystem		Compression	
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+; Smart H.264+; H.265; H.264; N
perating System	Embedded Linux	Audio	PCM; G.711A; G.711U; G.726
peration Interface	Web; local GUI	Network	
Perimeter Protection by Camera			HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMF
Performance	16/20/20 channels	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPo FTP; Alarm Server; IP Search (Supports Dahu
l Search	Search for pictures by channel, time and event type		camera, DVR, NVS, and more.); P2P
Face Recognition by Camera		Mobile Phone Access	Android; iOS
Performance	14 channels	Interoperability	ONVIF (profile T/S/G); CGI; SDK
ace Attributes	6 attributes: Gender; age; glasses; expression;	Browser	Chrome; IE9 or later; Firefox
	mouth mask; beard Search for pictures by channel, time and face	Record Playback	
Al Search	attributes	Multi-channel Playback	1/4/9/16
SMD Plus by Camera		Record Mode	Manual; schedule (general; MD; alarm; MD 8 intelligent; POS)
Performance	16/32/64 channels	Storage Method	Local HDD and network
Al Search	Search by target classification (human, vehicle)	Backup	USB device
Video Metadata by Ca	mera		Play; pause; stop; fast forward; fast backwa rewind; play by frame Full screen; backup (cut/file); partially enla
Performance	16 channels	Playback Function	
luman Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella	Storage	audio on/off
/ehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region	Disk Group	Yes
Non-motor Vehicle	Type; color; number of passengers; helmet	Alarm	
Al Search	Supports searching for target video by metadata	General Alarm	Motion detection; privacy masking; video los
ANPR by Camera		General Alami	alarm; PIR alarm; IPC alarm
Performance	4 channels	Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network se
Stereo Analysis by Camera			anomaly Perimeter protection; face detection; face
Performance	16 channels	Intelligent Alarm	recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle); ANPR; p
	Search by target classification (fall detection;		counting; stereo analysis; crowd distribution heat map
Al Search	people approach detection; people No. exception detection; people staying detection; violence detection)	Alarm Linkage	Record; snapshot; IPC external alarm output buzzer; log; preset; email
Video		External Port	, 3,1
Access Channel	16/32/64	Audio Input	1 channel, RCA connector
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding	Audio Output	2 channels, RCA connector, which supports vintercom output
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more	HDD	4 SATA III ports, up to 10 TB for a single HDD maximum HDD capacity varies with environm
Decoding Capability	16-channel@1080P (30 fps)	Alama lama	temperature
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/	Alarm Input	16 channels
		Alarm Output	6 channels
		eSATA	1 eSATA
	HDMI2 supports heterogeneous output	RS-232	1 channel, used to debug and pass through s data
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	RS-485	1 channel, used to control PTZ, and it supportunities protocols
	2nd core on 1/4/8/0/16	LICD	1 front LICD 2 O mort 2 room LICD 2 O morts



USB

2nd screen: 1/4/8/9/16

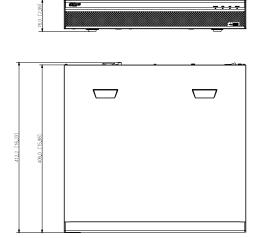
1 front USB 2.0 port, 2 rear USB 3.0 ports

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

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 \times 412.2 mm \times 76.0 mm (17.3" \times 16.2" \times 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		

Ordering Information					
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			

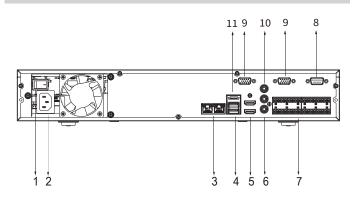
Dimensions (mm[inch])



Rev 001.001

Panels

11 eSATA Port



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



