

DHI-NVR5416/5432/5464-16P-4KS2E

16/32/64 Channel 1.5U 4HDDs 16PoE 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
- · Support IPC UPnP, 16 PoE ports



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	on	Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco ONVIF, Canon and more
System		Compression	,
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+; Smart H.264+; H.265; F
Operating System	Embedded Linux	Audio	PCM; G.711A; G.711U; G.726
Operation Interface	Web; local GUI	Network	1 311, 31, 111, 31, 110, 31, 23
Perimeter Protection by Camera		Network	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP
Performance	16/20/20 channels	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; PI FTP; Alarm Server; IP Search (Supports E camera, DVR, NVS, and more.); P2P
Al Search	Search for pictures by channel, time and event type		
Face Recognition by Camera		Mobile Phone Access	Android; iOS
Performance	14 channels	Interoperability	ONVIF (profile T/S/G); CGI; SDK
	6 attributes: Gender; age; glasses; expression;	Browser	Chrome; IE9 or later; Firefox
Face Attributes	mouth mask; beard	Record Playback	
Al Search	Search for pictures by channel, time and face attributes	Multi-channel Playback	1/4/9/16
SMD Plus by Camera		Record Mode	Manual; schedule (general; MD; alarm 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 C	amera		Play; pause; stop; fast forward; fast bac rewind; play by frame Full screen; backup (cut/file); partially
Performance	16 channels	Playback Function	
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella	Storago	audio on/off
Vehicle	Plate No.; type; color; vehicle type; logo; plate color; ornament; calling; seatbelt; region	Storage	Vos
Non-motor Vehicle	Type; color; number of passengers; helmet	Disk Group	Yes
Al Search	Supports searching for target video by metadata	Alarm	Mation detection, privacy marking, vi
ANPR by Camera		General Alarm	Motion detection; privacy masking; v alarm; PIR alarm; IPC alarm
Performance	4 channels	Anomaly Alarm	Camera offline; storage error; full sto conflict; MAC conflict; login lock; netvanomaly
Stereo Analysis by Ca	mera	Intelligent Alarm	Perimeter protection; face detection; recognition; SMD; video metadata (hu motor-vehicle; non-motor vehicle); A counting; stereo analysis; crowd distri
Performance	16 channels		
AI Search	Search by target classification (fall detection; people approach detection; people No. exception		heat map
Ai Search	detection; people staying detection; violence detection)	Alarm Linkage	Record; snapshot; IPC external alarm buzzer; log; preset; email
/ideo		External Port	
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 sup intercom 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 maximum HDD capacity varies with en
Decoding Capability	16-channel@1080P (30 fps)	Alarm Innut	temperature 16 channels
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720	Alarm Input	
	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 Output	6 channels
		eSATA	1 eSATA
	HDMI2 supports heterogeneous output 1st Screen: 16-channel: 1/4/8/9/16	RS-232	1 channel, used to debug and pass the data
Multi-screen Display	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 multiple protocols
	2nd screen: 1/4/8/9/16	USB	1 front USB 2.0 port, 2 rear USB 3.0 p

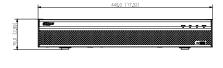
HDMI	2
VGA	2
Network	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port
PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC

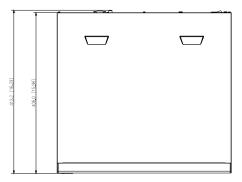
General Parameter

Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz	
Power Consumption	NVR: < 17.5W (without HDD) PoE: Max 25.5W for single port 150W total rated power, 80% control for protection	
Net Weight	4.65 kg (10.3 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	

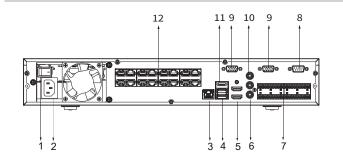
Ordering Information					
Туре	Model	Description			
16 Channel NVR	DHI-NVR5416-16P- 4KS2E	16 Channel 1.5U 16PoE 4K & H.265 Pro Network Video Recorder			
32 Channel NVR	DHI-NVR5432-16P- 4KS2E	32 Channel 1.5U 16PoE 4K & H.265 Pro Network Video Recorder			
64 Channel NVR	DHI-NVR5464-16P- 4KS2F	64 Channel 1.5U 16PoE 4K & H.265 Pro Network Video Recorder			

Dimensions (mm[inch])





Panels



- 1 Power Switch
- 3 Network Port
- 5 HDMI Ports
- 7 Alarm In/Out
- 9 VGA Ports
- 11 eSATA Port

- 2 Power Input
- 4 USB Ports
- 6 AUDIO IN, RCA Connector
- 8 RS-232 Port
- 10 AUDIO OUT, RCA Connector
- 12 PoE Ports

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