

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	1	Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more	
System		Compression		
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG	
Operating System	Embedded Linux	Audio	PCM; G.711A; G.711U; G.726	
Operation Interface	Web; local GUI	Network		
Perimeter Protection by Camera			HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP;	
Performance	16/20/20 channels	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Supports Dahua IP	
Al Search	Search for pictures by channel, time and event type	Mahila Phana Assass	camera, DVR, NVS, and more.); P2P	
Face Recognition by Ca	amera	Mobile Phone Access	Android; iOS	
Performance	14 channels	Interoperability	ONVIF (profile T/S/G); CGI; SDK	
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard	Browser	Chrome; IE9 or later; Firefox	
Al Search	Search for pictures by channel, time and face	Record Playback		
	attributes	Multi-channel Playback	1/4/9/16	
SMD Plus by Camera		Record Mode	Manual; schedule (general; MD; alarm; MD & alarm; intelligent; POS)	
Performance	16/32/64 channels	Storage Method	Local HDD and network	
AI Search	Search by target classification (human, vehicle)	Backup	USB device	
Video Metadata by Car	Video Metadata by Camera		1. Play; pause; stop; fast forward; fast backward; rewind; play by frame	
Performance	16 channels	Playback Function	Full screen; backup (cut/file); partially enlarge; audio on/off	
Human Body	Top; top color; bottom; bottom color; hat; bag; gender; age; umbrella	Storage	,	
Vehicle	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 loss; local	
ANPR by Camera		General Alami	alarm; PIR alarm; IPC alarm Camera offline; storage error; full storage; IP	
Performance	4 channels	Anomaly Alarm	conflict; MAC conflict; login lock; network security anomaly	
Stereo Analysis by Camera			Perimeter protection; face detection; face recognition; SMD; video metadata (human;	
Performance	16 channels	Intelligent Alarm	motor-vehicle; non-motor vehicle); ANPR; people counting; stereo analysis; crowd distribution;	
Al Search	Search by target classification (fall detection; people approach detection; people No. exception		heat map	
	detection; people staying detection; violence detection)	Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email	
Video		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 supports voice 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 HDD. The maximum HDD capacity varies with environment	
Decoding Capability	16-channel@1080P (30 fps)	Alarm Input	temperature 16 channels	
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 Output	6 channels	
		eSATA	1 eSATA	
			1 channel, used to debug and pass through serial	
Multi-screen Display	HDMI2 supports heterogeneous output 1st Screen: 16-channel: 1/4/8/9/16	RS-232	data	
	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 supports multiple protocols	
	2nd screen: 1/4/8/9/16	USB	1 front USB 2.0 port, 2 rear USB 3.0 ports	

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

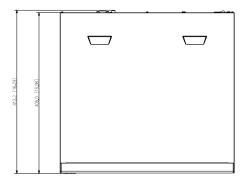
General Parameter

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			

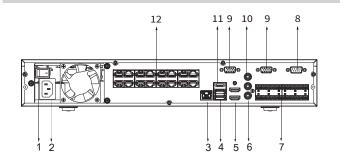
Ordering Information				
Туре	Model	Description		
16 Channel NVR	DHI-NVR5416-16P- 4KS2E	16 Channel 1.5U 16PoE 4K & H.265 Pro Network Video Recorder		
32 Channel NVR	DHI-NVR5432-16P- 4KS2E	32 Channel 1.5U 16PoE 4K & H.265 Pro Network Video Recorder		
64 Channel NVR	DHI-NVR5464-16P- 4KS2E	64 Channel 1.5U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