

DHI-NVR5816/5832/5864-16P-4KS2E

16/32/64 Channel 2U 8HDDs 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
- \cdot 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.



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Technical Specification

reclinical specification				
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	earch 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			
Al Search	Supports searching for target video by metadata			
ANPR by Camera				
Performance	erformance 4 channels			
Stereo Analysis by Camera				
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			
	2nd screen: 1/4/8/9/16			

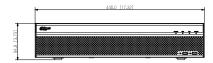
Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more
Compression	
Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPEG
Audio	PCM; G.711A; G.711U; G.726
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP 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	8 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	2 front USB 2.0 ports, 2 rear USB 3.0 ports

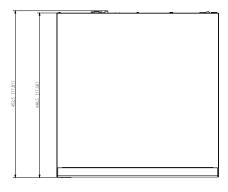


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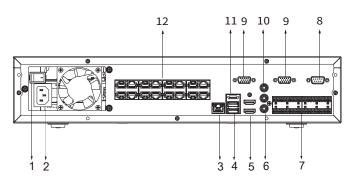
Network port PoE 16 ports (II 1-8 ports st General Parameter In the state st Power Supply Single, 100 Power Consumption NVR: < 17.5 PoE: Max 2	/100/1000 Mbps self-adaptive Ethernet				
Network 1 RJ-45 10, port PoE 16 ports (II 1-8 ports s) General Parameter Power Supply Single, 100 NVR: < 17.9 PoE: Max 2	/100/1000 Mbps self-adaptive Ethernet				
Network port PoE 16 ports (II 1-8 ports st General Parameter 90 Power Supply Single, 100 Power Consumption NVR: < 17.9 PoE: Max 2	/100/1000 Mbps self-adaptive Fthernet				
PoE 1-8 ports s General Parameter Power Supply Single, 100 Power Consumption	1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port				
Power Supply Single, 100 Power Consumption NVR: < 17.5	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC				
Power Consumption NVR: < 17.5 PoE: Max 2 PoE: Max 2	General Parameter				
Power Consumption PoE: Max 2	0V–240V AC, 50 Hz–60 Hz				
	5W (without HDD) 25.5W for single port Il rated power, 80% control for protection				
Net Weight 7 kg (15.4 kg	lb) (without HDD)				
Gross Weight 9.5 kg (20.5	94 lb) (without HDD)				
Product Dimensions 440.0 mm 3.7")	440.0 mm × 452.5 mm × 94.9 mm (17.3" × 17.8" × 3.7")				
Package Dimensions 563 mm ×	563 mm × 563 mm × 215 mm (22.2" × 22.2" × 8.5")				
Operating Temperature -10°C to +5	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	1,843 ft)				
CE: EN550: Certifications FCC: Part 1 UL: UL 609	32; EN55024; EN50130-4; EN60950-1				

Dimensions (mm[inch])





Panels



1	Power Switch	2	Power Input
3	Network Port	4	USB Ports
5	HDMI Ports	6	AUDIO IN, RCA
7	Alarm In/Out	8	RS-232 Port
9	VGA Ports	10	AUDIO OUT, RO

- 11 eSATA Port
- Connector
- CA Connector
- 12 PoE Ports

Ordering Information

Туре	Model	Description
16 Channel NVR	DHI-NVR5816-16P- 4KS2E	16 Channel 2U 16PoE 4K & H.265 Pro Network Video Recorder
32 Channel NVR	DHI-NVR5832-16P- 4KS2E	32 Channel 2U 16PoE 4K & H.265 Pro Network Video Recorder
64 Channel NVR	DHI-NVR5864-16P- 4KS2E	64 Channel 2U 16PoE 4K & H.265 Pro Network Video Recorder

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