

# DHI-NVR5816/5832/5864-R-4KS2

16/32/64 Channel 2U 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

#### **System 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 12MP 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, Arecont, ONVIF, Canon and more	
System		Compression		
Main Processor	Industrial embedded micro-processor	Video	Smart H.265+; Smart H.264+; H.265; H.264; MJPE	
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; RTSI		
Performance	16/20/20 channels	Network Protocol	UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPOE; DD FTP; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, and more.); P2P	
Al Search	Search for pictures by channel, time and event type	Mobile Phone Access	Android; iOS	
Face Recognition by Camera		Interoperability	ONVIF (profile T/S/G); CGI; SDK	
Performance	14 channels	Browser	Chrome; IE9 or later; Firefox	
Face Attributes	6 attributes: Gender; age; glasses; expression; mouth mask; beard	Record Playback	omonie, ies or later, i meiox	
Al Search	Search for pictures by channel, time and face	·	1/4/0/10	
CMD Dluc by Camara	attributes	Multi-channel Playback	1/4/9/16  Manual; schedule (general; MD; alarm; MD & alar	
SMD Plus by Camera		Record Mode	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 Performance	amera 16 channels	Playback Function	Play; pause; stop; fast forward; fast backward; rewind; play by frame     Full screen; backup (cut/file); partially enlarge;	
Human Body	Top; top color; bottom; bottom color; hat; bag;		audio on/off	
·	gender; age; umbrella  Plate No.; type; color; vehicle type; logo; plate color;	Storage		
Vehicle	ornament; calling; seatbelt; region	Disk Group	Yes	
Non-motor Vehicle	Type; color; number of passengers; helmet	Raid Support	RAID 0/1/5/6/10	
Al Search Supports searching for target video by metadata		Alarm		
ANPR by Camera		General Alarm	Motion detection; privacy masking; video loss; localarm; PIR alarm; IPC alarm	
Performance	4 channels		Camera offline; storage error; full storage; IP	
Stereo Analysis by Ca	amera	Anomaly Alarm	conflict; MAC conflict; login lock; network securit anomaly	
Performance	16 channels		Perimeter protection; face detection; face	
Al Search	Search by target classification (fall detection; people approach detection; people No. exception detection; people staying detection; violence detection)	Intelligent Alarm	recognition; SMD; video metadata (human; motor-vehicle; non-motor vehicle); ANPR; people counting; stereo analysis; crowd distribution; heat map	
Video		Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email	
Access Channel	16/32/64	External Port		
Network Bandwidth	320 Mbps for access, 320 Mbps for storage and 320 Mbps for forwarding	Audio Input	1 channel, RCA connector	
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1, and more	Audio Output	2 channels, RCA connector, which supports voice intercom output	
Decoding Capability	16-channel@1080P (30 fps)	HDD	8 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature. Supports hot swapping	
Video Output	HDMI1: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720	Alarm Input	16 channels	
	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	
	HDMI2 supports heterogeneous output  1st Screen: 16-channel: 1/4/8/9/16	eSATA	1 eSATA  1 channel, used to debug and pass through serial	
Multi-screen Display	32-channel: 1/4/8/9/16/25/36 64-channel: 1/4/8/9/16/25/36/64	RS-232	data	
	2nd screen: 1/4/8/9/16	RS-485	1 channel, used to control PTZ, and it supports multiple protocols	

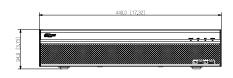
USB	2 front USB 2.0 ports, 2 rear USB 3.0 ports
HDMI	2
VGA	2
Network	2 RJ-45 10/100/1000 Mbps self-adaptive Ethernet ports

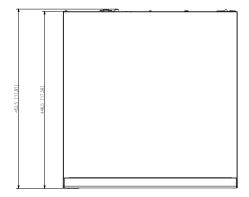
### General Parameter

Power Supply	Single, 100V–240V AC, 50 Hz–60 Hz	
Power Consumption	< 16.7W (without HDD)	
Net Weight	6.55 kg (14.4 lb) (without HDD)	
Gross Weight	9.5 kg (20.94 lb) (without HDD)	
Product Dimensions	440.0 mm $\times$ 452.5 mm $\times$ 94.9 mm (17.3" $\times$ 17.8" $\times$ 3.7")	
Package Dimensions	563 mm × 563 mm × 215 mm (22.2" × 22.2" × 8.5")	
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	

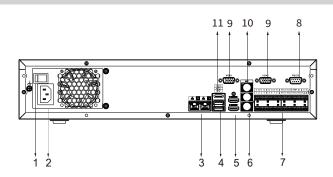
Ordering Information					
Туре	Model	Description			
16 Channel NVR	DHI-NVR5816-R- 4KS2	16 Channel 2U 4K & H.265 Pro Network Video Recorder			
32 Channel NVR	DHI-NVR5832-R- 4KS2	32 Channel 2U 4K & H.265 Pro Network Video Recorder			
64 Channel NVR	DHI-NVR5864-R- 4KS2	64 Channel 2U 4K & H.265 Pro Network Video Recorder			

# Dimensions (mm[inch])





# **Panels**



- 1 Power Switch
- 3 Network Ports
- 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