

DHI-NVR4216-4KS2/L

16 Channel 1U 2HDDs Network Video Recorder



Series Overview

Dahua NVR4000-4KS2/L is introduced as the Lite series NVR that supports for 4K and H.265 encoding technology with excellent performance at an affordable price. For applications where image details are highly required, it delivers the capability of 4K resolution processing. The NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

Due to its cost-effective and easy-to-install design, this NVR is ideal for a wide range of applications such as public safety, water conservancy, transportation, city centers, education, and financial institutions.

The NVR is compatible with numerous third-party devices making it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports for multi-user access and is compatible with ONVIF Profile S, T, G protocol, enabling interoperability with IP cameras.

Functions

Perimeter Protection by Camera

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Face Detection by Camera

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

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.

- New 4.0 user interface, Security baseline 2.1
- H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
- Max. decoding capability: 8 × 1080p@30 fps. Supports adaptive decoding
- Supports mainstream cameras of ONVIF and RTSP protocols
- P2P remote surveillance, video play on mobile device
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- AI by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
- Supports remote configuration and management of IPC, such as setting parameters, getting information, and upgrading IPC of the same model in batches



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.

Smart Codec

With advanced scene-adaptive rate control algorithm, Dahua smart codec technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

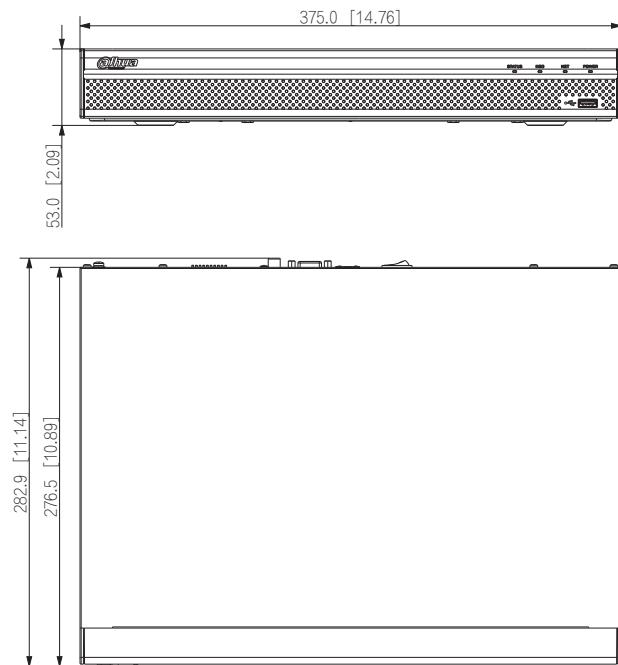
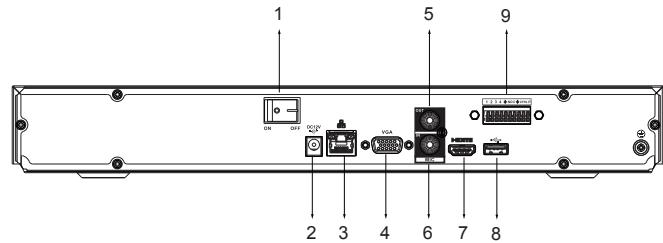
DMSS

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			
System		Playback Function	1. Play/pause/stop/slow/quick/backward/by frame 2. Full screen, backup (video clip/file), partial zoom in, and audio on/off
Main Processor	Industrial-grade embedded processor	Storage	
OS	Embedded Linux	Disk Group	Yes
Operation Interface	Web/operating in local GUI	Alarm	
Perimeter Protection by Camera			General Alarm Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm
Performance	8 channels	Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception
AI Search	Search for pictures by channel, time and event type	Intelligent Alarm	Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms
Face Detection by Camera			Alarm Linkage Recording, snapshot, audio, buzzer, log, preset, and email
Performance	4 channels	External Port	
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard	Audio Input	1 × RCA input
AI Search	Search for pictures by channel, time and face attributes	Audio Output	1 × RCA output
SMD Plus by Camera			HDD 2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Performance	12 channels	Alarm Input	4
AI Search	Search by target classification (human, vehicle)	Alarm Output	2
Video			
Access Channel	16	USB	2 (1 × front USB2.0; 1 × back USB2.0)
Network Bandwidth	Access: 160 Mbps; Storage: 160 Mbps; Forward: 64 Mbps	HDMI	1 (supports up to 4K resolution output)
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1	VGA	1
Decoding Capability	8 × 1080p@30 fps	Network	1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
Video Output	1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA and HDMI	General Parameter	
Multi-screen Display	1, 4, 8, 9, 16 views	Power Supply	12 V DC, 4 A
Third-party Camera Access	ONVIF; RTSP	Power Consumption	< 10 W (HDD not included, idling)
Compression			
Video	Smart H.265/H.265/Smart H.264/H.264/MJPEG	Net Weight	1.51 kg (3.33 lb)
Audio	PCM/G711A/G711U/G726/AAC	Gross Weight	2.76 kg (6.08 lb)
Network			
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVR; etc.); P2P; auto register	Product Dimensions	375 mm × 282.4 mm × 53 mm (14.76" × 11.12" × 2.09") (W × L × H)
Mobile Phone Access	Android; iOS	Package Dimensions	141 mm × 433 mm × 366 mm (5.55" × 17.05" × 14.41") (W × L × H)
Interoperability	ONVIF(profile T/S/G); CGI; SDK	Operating Conditions	-10 °C to +55 °C (+10 °F to +131 °F)
Browser	Chrome; IE9 or later; firefox	Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)
Record Playback			
Multi-channel Playback	Up to 16 channels for playback	Operating Humidity	10%~93%
Record Mode	Manual record; alarm recording; SMD recording; smart recording	Storage Humidity	30%~85%
Storage	Local HDD; network	Operating Altitude	3000 m (9842.52 ft)
Backup	USB storage device	Installation	Desktop mounted
		Certifications	CE: EN62368-1; EN55032, EN55024, EN55035, EN61000-3-2, EN61000-3-3 EN50130-4 FCC: Part 15 Subpart B

Ordering Information

Type	Model	Description
16 Channel NVR	DHI-NVR4216-4KS2/L	16 Channel 1U 2HDDs Network Video Recorder

Dimensions (mm[inch])**Panels**

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|---|--------------------|---|--------------------|
| 1 | Power Switch | 2 | DC 12V Power Input |
| 3 | Network Port | 4 | VGA Port |
| 5 | Mic Out | 6 | Mic In |
| 7 | HDMI Port | 8 | USB Port |
| 9 | Alarm Input/Output | | |