

DHI-NVR4216-16P-4KS2/L

16 Channel 1U 2HDDs 16PoE 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
- Al by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
- Supports remote configuration and management of IPC, such as set ting 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.

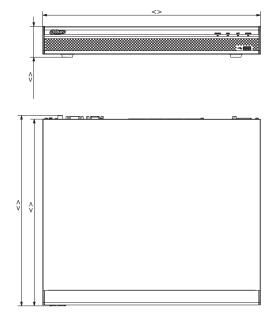
Backup

USB storage device

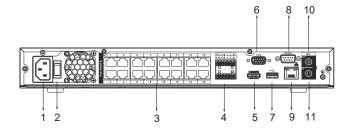
Technical Specification			1. Play/pause/stop/slow/quick/backward/by frame
System		Playback Function	2. Full screen, backup (video clip/file), partial zoom in, and audio on/off
Main Processor	Industrial-grade embedded processor	Storage	
OS	Embedded Linux	Disk Group	Yes
Operation Interface	Web/operating 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,
Al Search	Search for pictures by channel, time and event type		MAC conflict, login locked, and cybersecurity exception Face detection, perimeter protection (intrusion and
Face Detection by Camera		Intelligent Alarm	tripwire), IVS, people counting, heat map, and SMD alarms
Performance	4 channels	Alarm Linkage	Recording, snapshot, audio, buzzer, log, preset, and email
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard	External Port	email
Al Search	Search for pictures by channel, time and face attributes	Audio Input	1 × RCA input
SMD Plus by Camera		Audio Output	1 × RCA output
Performance	12 channels	·	2 SATA III ports, up to 10 TB for a single HDD. The
Al Search	Search by target classification (human, vehicle)	HDD	maximum HDD capacity varies with environment temperature
Video		Alarm Input	4
Access Channel	16	Alarm Output	2
Network Bandwidth	Access: 160 Mbps; Storage: 160 Mbps; Forward: 64 Mbps	USB	2 (1 × front USB2.0; 1 × back USB2.0)
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1	HDMI	1 (supports up to 4K resolution output)
Decoding Capability	8 × 1080p@30 fps	VGA	1
Video Output	1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA and HDMI	Network	1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port
Multi-screen Display	1 , 4, 8, 9, 16 views	PoE	16
Third-party Camera		General Parameter	
Access	ONVIF; RTSP	Power Supply	100 V-240 V, 47 Hz-63 HZ, 3.5 A
Compression		Power Consumption	< 10 W (HDD not included, idling) Total output power of PoE is 117W, the maximum output power of a single port is 25.5W
Video	Smart H.265/H.265/Smart H.264/H.264/MJPEG	Net Weight	2.63 kg (5.80 lb)
Audio	PCM/G711A/G711U/G726/AAC	Gross Weight	3.91 kg (8.62 lb)
Network		Product Dimensions	375 mm × 327.4 mm × 53.8 mm (14.76" × 12.89" × 2.12") (W × L × H)
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; NVS;	Package Dimensions	170 mm × 449 mm × 421 mm (6.69" × 17.68" × 16.57") (W × L × H)
Mobile Phone Access	etc.); P2P; auto register Android; iOS	Operating Conditions	$-10~^{\circ}\text{C}$ to +55 $^{\circ}\text{C}$ (+10 $^{\circ}\text{F}$ to +131 $^{\circ}\text{F})$
Interoperability	ONVIF(profile T/S/G); CGI; SDK	Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)
Browser	Chrome; IE9 or later; firefox	Operating Humidity	10%~93%
Record Playback	Cilionie, il 9 oi later, illerox	Storage Humidity	30%~85%
Multi-channel Playback	Up to 16 channels for playback	Operating Altitude	3000 m (9842.52 ft)
	Manual record; alarm recording; SMD recording; smart	Installation	Desktop mounted
Record Mode	recording	Certifications	CE: EN62368-1; EN55032,EN55024, EN55035, EN61000- 3-2, EN61000-3-3 EN50130-4 ECC: Part 15 Subpart R
Storage	Local HDD; network		FCC: Part 15 Subpart B

Ordering Information			
Туре	Model	Description	
16 Channel NVR	DHI-NVR4216-16P- 4KS2/L	16 Channel 1U 2HDDs 16PoE Network Video Recorder	

Dimensions (mm[inch])



Panels



- 1 Power Input Port
- 3 PoE Ports
- 5 HDMI Port
- 7 USB Port
- 9 Network Port

11 AUDIO IN, RCA Connector

- 2 Power Switch
- 4 NO1 C1/CTRL P
- 6 VGA Port
- 8 RS232 Port
- 10 AUDIO OUT, RCA Connector