

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
- 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.



Lite Series | DHI-NVR4216-4KS2/L

Technical Specification

Technical Specification				
System				
Main Processor	Industrial-grade embedded processor			
OS	Embedded Linux			
Operation Interface	Web/operating in local GUI			
Perimeter Protection by Camera				
Performance	8 channels			
AI Search	Search for pictures by channel, time and event type			
Face Detection by Camera				
Performance	4 channels			
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard			
AI Search	Search for pictures by channel, time and face attributes			
SMD Plus by Camera				
Performance	12 channels			
AI Search	Search by target classification (human, vehicle)			
Video				
Access Channel	16			
Network Bandwidth	Access: 160 Mbps; Storage: 160 Mbps; Forward: 64 Mbps			
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1			
Decoding Capability	8 × 1080p@30 fps			
Video Output	1 × VGA output, 1 × HDMI output, supports simultaneous video sources output for VGA and HDMI			
Multi-screen Display	1 , 4, 8, 9, 16 views			
Third-party Camera Access	ONVIF; RTSP			
Compression				
Video	Smart H.265/H.265/Smart H.264/H.264/MJPEG			
Audio	PCM/G711A/G711U/G726/AAC			
Network				

HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm

etc.); P2P; auto register

ONVIF(profile T/S/G); CGI; SDK

Up to 16 channels for playback

Chrome; IE9 or later; firefox

Android; iOS

recording

Local HDD; network

USB storage device

Server; IP Search (Support Dahua IP camera; DVR; NVS;

Manual record; alarm recording; SMD recording; smart

Playback Function	 Play/pause/stop/slow/quick/backward/by frame Full screen, backup (video clip/file), partial zoom in, and audio on/off 	
Storage		
Disk Group	Yes	
Alarm		
General Alarm	Motion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarm	
Anomaly Alarm	Camera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exception	
Intelligent Alarm	Face detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarms	
Alarm Linkage	Recording, snapshot, audio, buzzer, log, preset, and email	
External Port		
Audio Input	1 × RCA input	
Audio Output	1 × RCA output	
HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature	
Alarm Input	4	
Alarm Output	2	
USB	2 (1 × front USB2.0; 1 × back USB2.0)	
HDMI	1 (supports up to 4K resolution output)	
VGA	1	
Network	1 × RJ-45, 10/100/1000 Mbps self-adaptive Ethernet port	
General Parameter		
Power Supply	12 V DC, 4 A	
Power Consumption	< 10 W (HDD not included, idling)	
Net Weight	1.51 kg (3.33 lb)	
Gross Weight	2.76 kg (6.08 lb)	
Product Dimensions	375 mm × 282.4 mm × 53 mm (14.76" × 11.12" × 2.09") (W × L × H)	
Package Dimensions	141 mm × 433 mm × 366 mm (5.55" × 17.05" × 14.41") (W × L × H)	
Operating Conditions	-10 °C to +55 °C (+10 °F to +131 °F)	
Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)	
Operating Humidity	10%~93%	
Storage Humidity	30%~85%	
Operating Altitude	3000 m (9842.52 ft)	
Installation	Desktop mounted	
Certifications	CE: EN62368-1; EN55032,EN55024, EN55035, EN61000- 3-2, EN61000-3-3 EN50130-4 FCC: Part 15 Subpart B	

TIDMS

Network Protocol

Mobile Phone Access

Record Playback

Multi-channel Playback

Interoperability

Record Mode

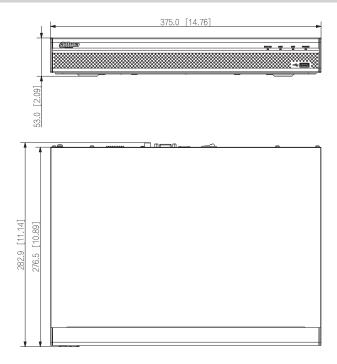
Storage Backup

Browser

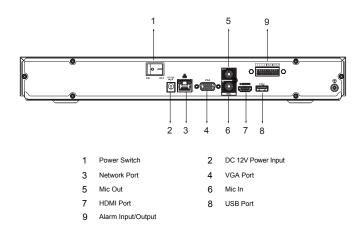
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Ordering Information			
Туре	Model	Description	
16 Channel NVR	DHI-NVR4216- 4KS2/L	16 Channel 1U 2HDDs Network Video Recorder	

Dimensions (mm[inch])



Panels



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