

DHI-NVR4116-4KS2/L

16 Channel Smart 1U 1HDD 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

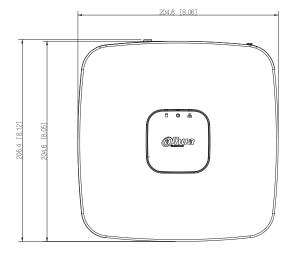
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical Specificat	ion		1. Play/pause/stop/slow/quick/backward/by frame
System		Playback Function	Full screen, backup (video clip/file), partial zoom 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, sce
Performance	8 channels	General Alarm	changing, PIR alarm, IPC external alarm
Al Search	Search for pictures by channel, time and event type	Anomaly Alarm	Camera disconnection, storage error, disk full, IP common MAC conflict, login locked, and cybersecurity exceptions.
Face Detection by Camera		Intelligent Alarm	Face detection, perimeter protection (intrusion an tripwire), IVS, people counting, heat map, and SMI
Performance	4 channels		alarms
Face Attributes	6 attributes: Gender, age, glasses, expression, mouth mask, and beard	Alarm Linkage	Recording, snapshot, audio, buzzer, log, preset, and email
Al Search	Search for pictures by channel, time and face attributes	External Port	
SMD Plus by Camera	а	Audio Input	1 × RCA input
Performance	12 channels	Audio Output	1 × RCA output
Al Search	Search by target classification (human, vehicle)	HDD	1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Video		USB	2 (2 × back USB2.0)
Access Channel	16	HDMI	1 (supports up to 4K resolution output)
Network Bandwidth	Access: 80 Mbps; Storage: 80 Mbps; Forward: 60 Mbps	VGA	1
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1	Network	1 × RJ-45, 10/100 Mbps self-adaptive Ethernet por
Decoding Capability	8 × 1080p@30 fps	General Parameter	
Video Output	$1 \times VGA$ output, $1 \times HDMI$ output, supports simultaneous video sources output for VGA and HDMI	Power Supply	12 V DC, 2 A
Multi-screen Display	1, 4, 8, 9, 16 views	Power Consumption	< 10 W (HDD not included, idling)
Third-party Camera Access	ONVIF; RTSP	Net Weight	0.45 kg (0.99 lb)
Compression		Gross Weight	1.07 kg (2.36 lb)
Video	Smart H.265/H.265/Smart H.264/H.264/MJPEG	Product Dimensions	204.6 mm \times 206.4 mm \times 48.1 mm (8.06" \times 8.12" \times (W \times L \times H)
Audio	PCM/G711A/G711U/G726/AAC	Package Dimensions	96 mm × 364 mm × 261 mm (3.78" × 14.33" × 10.2 (W × L × H)
Network		Operating Conditions	-10 °C to +50 °C (+10 °F to +122 °F)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm	Storage Conditions	0 °C to +40 °C (32 °F to 104 °F)
	Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register	Operating Humidity	10%~93%
Mobile Phone Access	Android; iOS	Storage Humidity	30%~85%
Interoperability	ONVIF(profile T/S/G); CGI; SDK	Operating Altitude	3000 m (9842.52 ft)
Browser	Chrome; IE9 or later; firefox	Installation	Desktop mounted
Record Playback		Certifications	CE: EN62368-1; EN55032, EN55024, EN55035, EN63-2, EN61000-3-3 EN50130-4
Multi-channel Playback	Up to 16 channels for playback		FCC: Part 15 Subpart B
Record Mode	Manual record; alarm recording; SMD recording; smart recording		
Storage	Local HDD; network		
Backup	USB storage device		

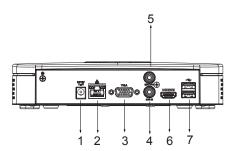
Ordering Information			
Туре	Model	Description	
16 Channel NVR	DHI-NVR4116- 4KS2/L	16 Channel Smart 1U 1HDD Network Video Recorder	

Dimensions (mm[inch])





Panels



- 1 DC 12V Power Input
- 2 Network Port
- 3 VGA Port
- AUDIO IN, RCA Connector
- 5 AUDIO OUT, RCA Connector 6
- HDMI Port
- 7 USB Port