

DHI-NVR4116-8P-4KS2/L

16 Channel Smart 1U 1HDD 8PoE 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
- $\boldsymbol{\cdot}$ 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 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.

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Technical Specification

Backup

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: 80 Mbps; Storage: 80 Mbps; Forward: 60 Mbps		
Resolution	8MP; 6MP; 5MP; 4MP; 3MP; 1080p; 720p; D1		
Decoding Capability	8 × 1080p@30 fps		
Video Output	$1\times$ VGA output, $1\times$ 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			
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; etc.); P2P; auto register		
Mobile Phone Access	Android; iOS		
Interoperability	ONVIF(profile T/S/G); CGI; SDK		
Browser	Chrome; IE9 or later; firefox		
Record Playback			
Multi-channel Playback	Up to 16 channels for playback		
Record Mode	Manual record; alarm recording; SMD recording; smart recording		
Storage	Local HDD; network		

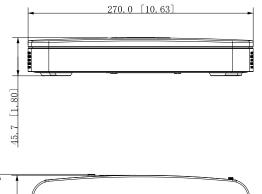
USB storage device

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	1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature			
USB	2 (2 × back USB2.0)			
HDMI	1 (supports up to 4K resolution output)			
VGA	1			
Network	$1 \times RJ-45$, 10/100 Mbps self-adaptive Ethernet port			
PoE	8			
General Parameter				
Power Supply	DC48V/53V, 2A/1.8A			
Power Consumption	< 10 W (HDD not included, idling) Total output power of PoE is 72W, the maximum output power of a single port is 25.5W			
Net Weight	0.70 kg (1.54 lb)			
Gross Weight	1.80 kg (3.97 lb)			
Product Dimensions	270 mm × 206.5 mm × 47.5 mm (10.63" × 8.13" × 1.87") (W × L × H)			
Package Dimensions	96 mm × 427 mm × 262 mm (3.78" × 16.81" × 10.31") (W × L × H)			
Operating Conditions	-10 °C to +50 °C (+10 °F to +122 °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			

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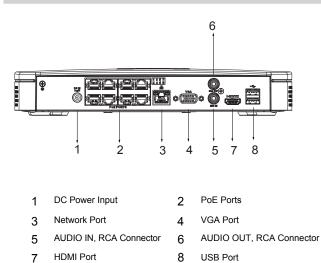
Ordering Information			
Туре	Model	Description	
16 Channel NVR	DHI-NVR4116-8P- 4KS2/L	16 Channel Smart 1U 1HDD 8PoE Network Video Recorder	

Dimensions (mm[inch])





Panels



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