

# DHI-NVR4116-8P-4KS2/L

16 Channel Smart 1HDD 8PoE 4K&H.265 Lite Network Video Recorder



## Series Overview

Dahua NVR4000-4KS2/L is introduced as the first 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 2.4 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.

### 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.

### Heat Map by Camera

Dahua heat map technology is used to display the crowd density and people appearance probability. Export and display the crowd status by different colors. Generally, the crowd status is the statistics of people quantity in space and time dimensions.

- New UI interface with more easier operation experience
- Smart H.265+/ Smart H.264+
- P2P remote surveillance, video play on mobile device
- 16-ch@720P(30FPS), self-adaptive decoding capability
- Supports mainstream cameras of ONVIF and RTSP protocol
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
- Remote configuration and management of IPCs, such as setting parameters, acquiring information and upgrading IPCs of the same model in batches
- DHCP(Dynamic Host Configuration Protocol), HTTP(Hypertext Transfer Protocol), NTP(Network Time Protocol) and DDNS(Dynamic Domain Name System)



## AI Search

Support AI search by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeared.

## ANR (Automatic Network Replenishment Technology)

Video record in SD card in IP cameras when the network breaks down, and after the network recovered, the video will be transferred to device and then recorded in it.

## 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

Main Processor	Industrial-grade embedded processor
OS	Embedded Linux
Operation Interface	Web/operating in local GUI

### Video

Access Channel	16 channels
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 60 Mbps for forwarding
Resolution	8MP/5MP/4MP/3MP/1080P/720P/D1/CIF
Decoding Capability	2ch@4K(30fps)/4ch@4MP(30fps)/8ch@1080P(30fps)
Video Output	1 VGA/1 HDMI simultaneous video output HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720
Multi-screen Display	1/4/8/9/16
Third Party Camera Access	ONVIF, RTSP

### Compression

Video	Smart H.265+/H.265/Smart H.264+/H.264
Audio	G.711A/G.711U/PCM/G726

### Network

Network Protocol	HTTP, HTTPS, TCP/IP, IPv4, RTSP, UDP, NTP, DHCP, DNS, P2P
Mobile Phone Access	iDMSS (iOS)/gDMSS (Android)
Access Standard	ONVIF (profile S), CGI, SDK
Browser	Chrome, IE9 or above, Firefox

### Record Playback

Multi-channel Playback	Up to 16 channels playback
Record Mode	Priority of record mode: Manual recording > alarm recording > motion detection recording > timed recording
Storage	Local HDD
Backup	USB device
Playback Function	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off

### Alarm

General Alarm	Motion detection, privacy masking, video loss, IPC alarm
Anomaly Alarm	Front-end device going offline, storage error, full storage, IP conflict, MAC conflict, login lock, network security anomaly
Alarm Linkage	Video recording, snapshot, log, preset point, tour

### External Port

HDD	1 SATA port, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature.
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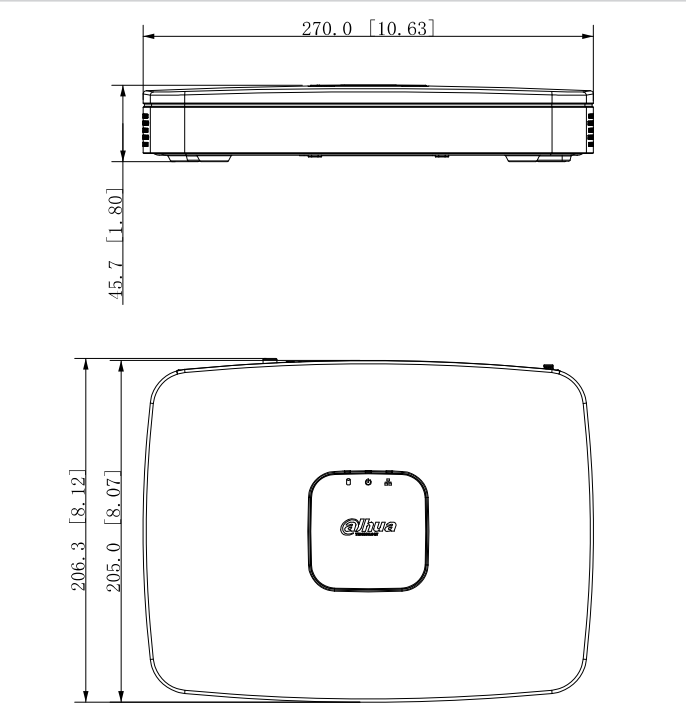
USB	2 rear USB 2.0
HDMI	1
VGA	1
RCA Input	1
RCA Output	1
Network	1 RJ-45 port (10/100 Mbps), 8 RJ-45 ports with PoE power supply (10/100 Mbps)

### General Parameter

Power Supply	DC48V/53V, 2A/1.8A
Power Consumption	Total output of NVR is ≤ 10W (without HDD) 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) (without HDD)
Gross weight	1.80 kg (3.97 lb) (without HDD)
Dimensions	270 mm × 206.5 mm × 47.5 mm (W × L × H) 10.63 inch × 8.13 inch × 1.87 inch (W × L × H)
Packaging Dimensions	96 mm × 427 mm × 262 mm (W × L × H) 3.78 inch × 16.81 inch × 10.31 inch (W × L × H)
Operating Temperature	-10°C to +50°C (+14°F to +122°F)
Storage Temperature	0°C to +40°C (+32°F to +104°F)
Operating Humidity	10%–90%
Storage Humidity	30%–85%
Operating Altitude	3000 m (9843 ft)
Installation	Desktop mounted
Certification	CE/FCC

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

Dimensions (mm[inch])



Panels

