

# DHI-NVR4104/4108/4116-4KS2

4/8/16 Channel Smart 1U 4K & H.265 Lite Network Video Recorder



- 4/8/16-channel IP video access
- Smart H.265+/Smart H.264+/H.265/H.264; H.265 auto switch
- Max 80 Mbps incoming bandwidth
- Up to 8MP resolution for preview and playback
- · 8-channel decoding@1080p (30 fps)
- Al by Camera: Perimeter protection; SMD Plus; people counting; heat













Dahua's new NVR4000-4KS2 network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This professional NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

### **System Overview**

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS). It features an open architecture that supports multi-user access and is compatible with ONVIF 2.4 protocol, enabling interoperability with 4K cameras.

#### **Functions**

## **Perimeter Protection by Camera**

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more. 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.

#### **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.

#### 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.

#### **DMSS**

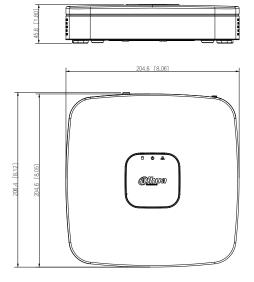
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical Specification		
System		
Main Processor	Industrial embedded micro-processor	
Operating System	Embedded Linux	
Operation Interface	Web; local GUI	
Perimeter Protection by	Camera	
Performance	4/8/16 channels	
Al Search	Search for pictures by channel, time and event typ	
SMD Plus by Camera		
Performance	4/8/16 channels	
AI Search	Search by target classification (human, vehicle)	
Video		
Access Channel	4/8/16	
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 48 Mbps for forwarding	
Resolution	8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D and more	
Decoding Capability	8 channels@1080p (30 fps)	
Video Output	HDMI: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720 VGA: 1920 × 1080; 1280 × 1024; 1280 × 720	
Multi-screen Display	4-channel: 1/4 8-channel: 1/4/8/9 16-channel: 1/4/8/9/16	
Third Party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon and more	
Compression		
Video	Smart H.265+; Smart H.264+; H.265; H.264	
Audio	PCM; G.711A; G.711U; G.726	
Network		
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTS UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports Dahua IP camer DVR, NVS, and more); P2P	
Mobile Phone Access	Android; iOS	
Interoperability	ONVIF (profile T/S/G); CGI; SDK	
Browser	Chrome; IE9 or later; Firefox	
Record Playback		
Multi-channel Playback	4-channel: 1/4 8-channel: 1/4/9 16-channel: 1/4/9/16	
Record Mode	Manual; schedule (general; MD; alarm; MD & alarn intelligent)	
Storage Method	Local HDD and network	
Backup	USB device	
Playback Function	Play; pause; stop; fast forward; fast backward; rewind; play by frame Full screen; backup (cut/file); partially enlarge; audio on/off	

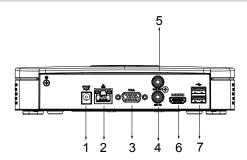
Storage		
Disk Group	Yes	
Alarm		
General Alarm	Motion detection; privacy masking; video loss; PIR alarm; IPC alarm	
Anomaly Alarm	Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly	
Intelligent Alarm	Perimeter protection; SMD; people counting; heat map	
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email	
External Port		
Audio Input	1 channel, RCA connector	
Audio Output	1 channel, RCA connector, which support voice intercom output	
HDD	1 SATA III port, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature	
USB	2 rear USB 2.0 ports	
HDMI	1	
VGA	1	
Network	1 independent 100 Mbps ethernet port	
General Parameter		
Power Supply	12V/2A DC	
Power Consumption	< 6.3W (without HDD)	
Net Weight	0.4 kg (0.88 lb) (without HDD)	
Gross Weight	1.5 kg (3.31 lb) (without HDD)	
Product Dimensions	204.6 mm × 206.4 mm × 45.6 mm (8.1" × 8.1" × 1.8")	
Package Dimensions	361 mm × 259 mm × 94 mm (14.2" × 10.2" × 3.7")	
Operating Temperature	-10°C to +55°C (+14°F to +131°F)	
Storage Temperature	0°C to +40°C (+32°F to +104°F)	
Operating Humidity	10%-93% (RH)	
Storage Humidity	30%-85% (RH)	
Operating Altitude	3,000 m (9,843 ft)	
Certifications	CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014 UL: UL 60950-1	

Ordering Information			
Туре	Model	Description	
4 Channel NVR	DHI-NVR4104-4KS2	4 Channel Smart 1U 4K & H.265 Lite Network Video Recorder	
8 Channel NVR	DHI-NVR4108-4KS2	8 Channel Smart 1U 4K & H.265 Lite Network Video Recorder	
16 Channel NVR	DHI-NVR4116-4KS2	16 Channel Smart 1U 4K & H.265 Lite Network Video Recorder	

# Dimensions (mm[inch])



## **Panels**



- DC 12V Power Input 2 Network Port
- 3 VGA Port 4 AUDIO IN, RCA Connector
- 5 AUDIO OUT, RCA Connector 6 HDMI Port
- 7 USB Port