

DHI-NVR4104/4108-P-4KS2

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



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.

Series 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

- · 4/8-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 map
- · Support IPC UPnP, 4 PoE ports











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

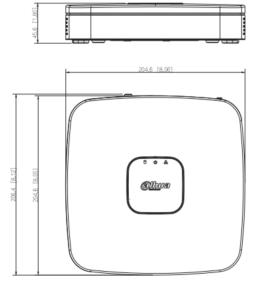
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

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 channels		
Al Search	Search for pictures by channel, time and event type		
SMD Plus by Camera			
Performance	4/8 channels		
Al Search	Search by target classification (human, vehicle)		
Video			
Access Channel	4/8		
Network Bandwidth	80 Mbps for access, 80 Mbps for storage and 48 Mbps for forwarding		
Resolution	$8 \text{MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, D1,} \\$ 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		
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; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; DDNS; FTP; Alarm Server; IP Search (supports Dahua IP camera, 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	Record Playback		
Multi-channel Playback	4-channel: 1/4 8-channel: 1/4/9		
Record Mode	Manual; schedule (general; MD; alarm; MD $\&$ alarm; 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		

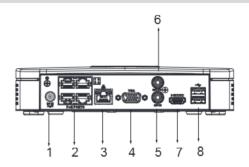
Alarm General Alarm Motion detection; privacy masking; video loss; PIR alarm; IPC alarm Anomaly Alarm Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly Intelligent Alarm Perimeter protection; SMD; people counting; heat map Alarm Linkage External Port Audio Input 1 channel, RCA connector Audio Output 1 channel, RCA connector, which support voice intercom output HDD 1 stat Ill 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 4 ports (IEEE802.3at/af) General Parameter Power Supply 48V/1.SA DC Power Consumption NVR: < 7.5W (without HDD) PoE: Max 25.5W for single port, 48W in total Net Weight 0.45 kg (0.99 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 O"C to +40"C (+32"F to +104"F) Operating Humidity 10%—93% (RH) Storage Humidity 30%—85% (RH) Operating Altitude Certifications	Storage		
General Alarm Motion detection; privacy masking; video loss; PIR alarm; IPC alarm Camera offline; storage error; full storage; IP conflict; MAC conflict; login lock; network security anomaly Intelligent Alarm	Disk Group	Yes	
alarm; IPC 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 1 SATA III port, up to 10 TB for a single HDD. The maximum HDD capacitry varies with environment temperature USB 2 rear USB 2.0 ports HDMI 1 VGA 1 Network 1 independent 100 Mbps ethernet port PoE 4 ports (IEEE802.3at/af) General Parameter Power Supply 48V/1.5A DC Power Consumption NVR: < 7.5W (without HDD) PoE: Max 25.5W for single port, 48W in total Net Weight 0.45 kg (0.99 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 +40°C (+32°F to +104°F) Operating Humidity 10%—93% (RH) Storage Humidity 30%—85% (RH) CE: EN55032; EN55024; EN50130-4; EN60950-1 FCC Part 15 subpart B; ANSI C63.4-2014	Alarm		
Anomaly Alarm conflict; MAC conflict; login lock; network security anomaly Intelligent Alarm Perimeter protection; SMD; people counting; heat map Record, snapshot, IPC external alarm output, buzzer; log; preset; email External Port Audio Input 1 channel, RCA connector Audio Output 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 PoE 4 ports (IEEE802.3at/af) General Parameter Power Supply 48V/1.5A DC Note Weight 0.45 kg (0.99 lb) (without HDD) PoE: Max 25.5 W for single port, 48W in total Net Weight 0.45 kg (0.99 lb) (without HDD) Product Dimensions 204.6 mm × 206.4 mm × 45.6 mm (8.1" × 8.1" × 1.8") Package Dimensions 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) Ce: EN55032; EN55024; EN50130-4; EN60950-1 FCC Part 15 subpart B; ANSI C63.4-2014	General Alarm		
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External Port Audio Input 1 channel, RCA connector Audio Output 1 channel, RCA connector, which support voice intercom output HDD 1 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 PoE 4 ports (IEEE802.3at/af) General Parameter Power Supply 48V/1.5A DC Power Consumption NVR: < 7.5W (without HDD) PoE: Max 25.5W for single port, 48W in total Net Weight 0.45 kg (0.99 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) CE: ENS5032; ENS5024; ENS50130-4; EN60950-1 FCC Part 15 Subpart B; ANSI G63.4-2014	Intelligent Alarm		
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Intercom output	Audio Input	1 channel, RCA connector	
### HDD	Audio Output		
HDMI	HDD	maximum HDD capacity varies with environment	
VGA 1 Network 1 independent 100 Mbps ethernet port PoE 4 ports (IEEE802.3at/af) General Parameter 48V/1.5A DC Power Supply 48V/1.5A DC Power Consumption NVR: < 7.5W (without HDD) PoE: Max 25.5W for single port, 48W in total Net Weight 0.45 kg (0.99 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 3,000 m (9,843 ft) Certifications CE: ENS5032; ENS5024; ENS0130-4; EN60950-1 FCC: Part 15 Subpart B; ANSI C63.4-2014	USB	2 rear USB 2.0 ports	
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CE: EN55032; EN55024; EN50130-4; EN60950-1 Certifications FCC: Part 15 Subpart B; ANSI C63.4-2014	Storage Humidity	30%-85% (RH)	
Certifications FCC: Part 15 Subpart B; ANSI C63.4-2014	Operating Altitude	3,000 m (9,843 ft)	
	Certifications	FCC: Part 15 Subpart B; ANSI C63.4-2014	

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

Dimensions (mm[inch])



Panels



- 1 DC Power Input
- 2 PoE Ports
- 3 Network Port
- 4 VGA Port
- 5 AUDIO IN, RCA Connector
- AUDIO OUT, RCA Connector
- 7 HDMI Port
- B USB Port

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