

DHI-NVR4104-4KS2/L

4 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 ing 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.

Lite Series | DHI-NVR4104-4KS2/L

Technical Specification

Storage

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System		
Main Processor	Industrial-grade embedded processor	
OS	Embedded Linux	
Operation Interface	Web/operating in local GUI	
Perimeter Protection by Camera		
Performance	4 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	4 channels	
AI Search	Search by target classification (human, vehicle)	
Video		
Access Channel	4	
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	$1 \times {\rm VGA}$ output, $1 \times {\rm HDMI}$ output, supports simultaneous video sources output for VGA and HDMI	
Multi-screen Display	1 , 4 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 4 channels for playback	
Record Mode	Manual record; alarm recording; SMD recording; smart recording	

Local HDD; network

Playback Function1. Play/pause/stop/slow/quick/backward/by frame 2. Full screen, backup (video clip/file), partial zoom in, and audio on/offStorageVesDisk GroupVesAlarmMotion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarmAnomaly AlarmCamera disconnection, storage error, disk full, IP conflict, MAC conflict, Iogin locked, and cybersecurity exception alarmsAnomaly AlarmFace detection, perimeter protection (intrusion and tripwire). NS, people counting, heat map, and SMD alarmsAlarm LinkageRecording, snapshot, audio, buzzer, log, preset, and email tarmsAudio Input1 × RCA outputAudio Output1 × RCA outputHDD1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperatureUSB2 (2 × back USB2.0)HDMI1 (supports up to 4K resolution output)VGA1Network1 × RI-45, 10/100 Mbps self-adaptive Ethernet portGeneral Parameter20 × Dc 2 APower Consumption<10 ∨ (HDD not included, idling)Net Weight0.45 kg (0.99 lb)Gross Weight1.07 kg (2.36 lb)Product Dimensions96 mm × 364 mm × 48.1 mm (8.06" × 8.12" × 1.90") (W × 1 × H)Package Dimensions01 × to +50 °C (+14 *F to +122 *F)Storage Conditions-10 °C to +50 °C (+14 *F to +122 *F)Storage Conditions0 × C to +40 °C (32 *F to 104 'F)Operating Humidity30 × 85%Operating Humidity30 × 85%Operating Altitude3000 m (9	Backup	USB storage device	
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AlarmGeneral AlarmMotion detection, privacy masking, video loss, scene changing, PIR alarm, IPC external alarmAnomaly AlarmCamera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exceptionIntelligent AlarmFace detection, perimeter protection (intrusion and triprive). IVS, people counting, heat map, and SMD alarmsAlarm LinkageRecording, snapshot, audio, buzzer, log, preset, and emailExternal Port1 × RCA inputAudio Input1 × RCA outputHDD1 × RCA outputHDD1 (supports up to 10 TB for a single HDD. The maximum HDC capacity varies with environment temperatureUSB2 (2 × back USB2.0)HDMI1 (supports up to 4K resolution output)VGA1Network1 × RC4 outputOpeneral ParameterPower Supply12 V DC, 2 APower Consumption<100 (HDD not included, idling)			
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General Alarmchanging, PIR alarm, IPC external alarmAnomaly AlarmCamera disconnection, storage error, disk full, IP conflict, MAC conflict, login locked, and cybersecurity exceptionIntelligent AlarmFace detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarmsAlarm LinkageRecording, snapshot, audio, buzzer, log, preset, and emailExternal Port1 × RCA inputAudio Input1 × RCA outputAudio Output1 × RCA outputHDD1 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperatureUSB2 (2 × back USB2.0)HDMI1 (supports up to 4K resolution output)VGA1Network1 × RL-4S, 10/100 Mbps self-adaptive Ethernet portGeneral Parameter204 cm x 206.4 mm x 48.1 mm (8.06" × 8.12" × 1.90") (W × L × H)Power Consumption204.6 mm x 206.4 mm x 48.1 mm (8.06" × 8.12" × 1.90") (W × L × H)Package Dimensions0 * Cto +40 * Ct (32 * Fto 104 *F)Operating Humidity10% *93%Storage Conditions0 * Cto +40 * Ct (32 * Fto 104 *F)Operating Humidity3000 m (9842.52 ft)InstallationDesktop mountedCertifications2Ct: EN62368-1; EN55032, EN55034, EN55035, EN61000- 3 - 2. EN61000 - 3 - 2. EN63000 - 3 - 2	Alarm		
Anomaly AlarmMAC conflict, login locked, and cybersecurity exceptionIntelligent AlarmFace detection, perimeter protection (intrusion and tripwire), IVS, people counting, heat map, and SMD alarmsAlarm LinkageRecording, snapshot, audio, buzzer, log, preset, and emailExternal Port1 × RCA outputAudio Output1 × RCA outputHDD1 × RCA outputHDD1 × RCA outputHDD1 × RCA outputUSB2 (2 × back USB2.0)HDMI1 (supports up to 4K resolution output)VGA1Network1 × RI-45, 10/100 Mbps self-adaptive Ethernet portGeneral Parameter204 c mm × 206.4 mm × 48.1 mm (8.06" × 8.12" × 1.90") (W × L × H)Power Supply12 V DC, 2 APower Consumption<100 W (HDD not included, idling)	General Alarm		
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HDMI1 (supports up to 4K resolution output)VGA1Network1 × RJ-45, 10/100 Mbps self-adaptive Ethernet portGeneral ParameterPower Supply12 ∨ DC, 2 APower Consumption< 10 W (HDD not included, idling)Net Weight0.45 kg (0.99 lb)Gross Weight1.07 kg (2.36 lb)Product Dimensions204.6 mm × 206.4 mm × 48.1 mm (8.06" × 8.12" × 1.90") (W × L × H)Package Dimensions96 mm × 364 mm × 261 mm (3.78" × 14.33" × 10.28") (W × L × H)Operating Conditions-10 °C to +50 °C (+14 °F to +122 °F)Storage Conditions0 °C to +40 °C (32 °F to 104 °F)Operating Altitude3000 m (9842.52 ft)InstallationDesktop mountedCertificationsCE: EN62368-1; EN55032, EN55035, EN61000- 3-2, EN61000-3-3 EN50130-4	HDD	maximum HDD capacity varies with environment	
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Network1 × RJ-45, 10/100 Mbps self-adaptive Ethernet portGeneral ParameterPower Supply12 ∨ DC, 2 APower Consumption<10 W (HDD not included, idling)	HDMI	1 (supports up to 4K resolution output)	
General ParameterPower Supply12 V DC, 2 APower Consumption< 10 W (HDD not included, idling)	VGA	1	
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Gross Weight 1.07 kg (2.36 lb) Product Dimensions 204.6 mm × 206.4 mm × 48.1 mm (8.06" × 8.12" × 1.90") (W × L × H) Package Dimensions 96 mm × 364 mm × 261 mm (3.78" × 14.33" × 10.28") (W × L × H) Operating Conditions -10 °C to +50 °C (+14 °F to +122 °F) Storage Conditions 0 °C to +40 °C (32 °F to 104 °F) Operating Humidity 10% °93% Storage Humidity 3000 m (9842.52 ft) Installation Desktop mounted Certifications CE: EN62368-1; EN55032, EN55024, EN55035, EN61000- 3-2, EN61000-3-3 EN50130-4	Power Consumption	< 10 W (HDD not included, idling)	
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Installation Desktop mounted Certifications CE: EN62368-1; EN55032, EN55024, EN55035, EN61000- 3-2, EN61000-3-3 EN50130-4	Storage Humidity	30%~85%	
CE: EN62368-1; EN55032,EN55024, EN55035, EN61000- Certifications 3-2, EN61000-3-3 EN50130-4	Operating Altitude	3000 m (9842.52 ft)	
Certifications 3-2, EN61000-3-3 EN50130-4	Installation	Desktop mounted	
FCC: Part 15 Subpart B	Certifications		

Lite Series | DHI-NVR4104-4KS2/L

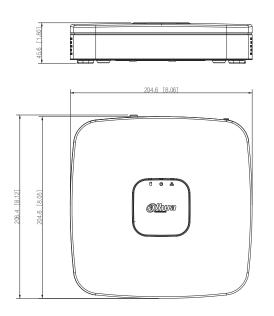
Ordering Information

Туре	Model
4 Channel NVR	DHI-NVR4104- 4KS2/L

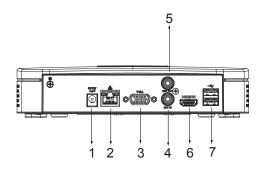
4 Channel Smart 1U 1HDD Network Video Recorder

Description

Dimensions (mm[inch])



Panels



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

VGA Port

3

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