

DHI-NVR4104HS-P-4KS3(960GB)

4CH Compact 1U 4PoE 1SSD 960GB Lite Network Video Recorder



Series Overview

The NVR4000-4KS3 model of the Lite Series NVR is favored for its outstanding performance. It supports 4K resolution for scenes that require highly detailed images, and can serve as the edge, central, or backup storage with an intuitive shortcut menu for remote management and control. This NVR also features Smart Motion Detection (SMD) by recorder, which can distinguish target vehicles and humans from ordinary ones in real-time. When an IPC is connected to the NVR, a variety of AI functions become available such as face detection, perimeter protection, and people counting. This NVR is both cost-effective and easy-to-install, making it ideal for a wide range of applications such as for cities, transportation, education and finance.

Functions

Internal SSD

Unlike the traditional NVR, S-NVR comes with the SSD preinstalled in the device. It is more energy efficient, and has stronger vibration resistance and better heat dissipation. S-NVR also saves you time on selecting the type of hard disk and installing it, greatly increasing your efficiency.

SMD Plus

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.

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.

- Comes with an internal 960GB SSD.
- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 8 × 1080p@30 fps or 4 × 4 MP@30 fps.
- Max. 80/80/60 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 12 MP.
- AI by Recorder supports 4-channel SMD Plus.
- AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, people counting, stereo analysis and heat map.
- Supports EPTZ, and one-click arming and disarming.



Face Recognition by Camera

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

Perimeter Protection by Camera

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Stereo Analysis by Camera

With deep learning algorithm and 3-dimensional scene information, Dahua Stereo Analysis technology can recognize people's behaviors, such as fall detection, violence detection, stay detection, and space exception, and then generates alarm signals and triggers linkage.

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.

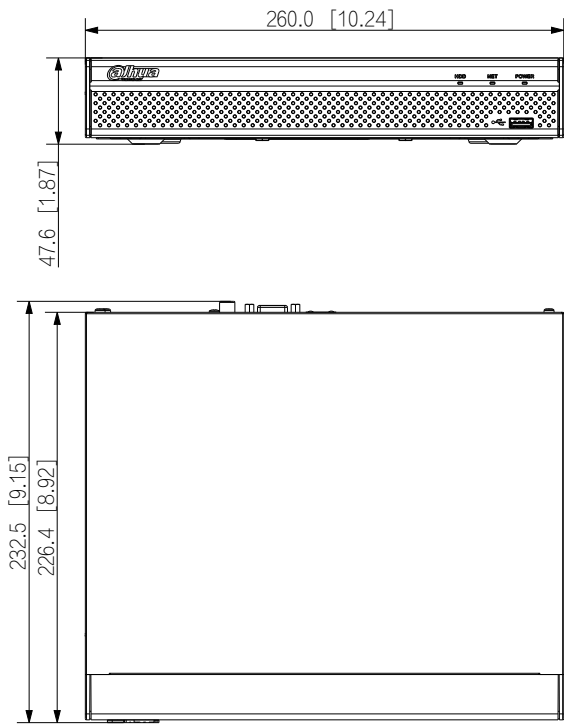
NVR4000-4KS3 Series | DHI-NVR4104HS-P-4KS3(960GB)

Technical Specification			
System		Audio Compression	G.711a; G.711u; PCM; G.726
Main Processor	Industrial-grade processor	Network	
Operating System	Embedded Linux	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)
Operating Interface	Web, Local GUI	Mobile Phone Access	iOS; Android
AI		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
AI by Recorder	SMD Plus	Browser	Chrome; IE; Safari; Edge; Firefox
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	Recording Playback	
Perimeter Protection		Multi-channel Playback	Up to 4 channels
Perimeter Performance of AI by Camera (Number of Channels)	4 channels	Record Mode	General; motion detection; intelligent; alarm
Face Detection		Backup Method	USB device and network
Face Attributes	6 attributes	Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback
Face Detection Performance of AI by Camera (Number of Channels)	4 channels	Alarm	
Face Recognition		General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Face Recognition Performance of AI by Camera (Number of Channels)	4 channels	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
SMD Plus		Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
SMD Plus by Camera	4 channels	Port	
Audio and Video		Audio Input	1-channel RCA
Access Channel	4 channels	Audio Output	1-channel RCA
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Alarm Input	NA (2 channels is optional)
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	Alarm Output	NA (1-channel 12 V 1 A output is optional)
Decoding Capability	AI disabled: 1-channel 12 MP@30 fps; 2-channel 8 MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps AI enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps	HDD Interface	1 SSD: 960 GB
Video Output	1 HDMI, 1 VGA Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
Multi-screen Display	Main Screen: 1/4 Sub Screen: 1/4	HDMI	1
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	VGA	1
Compression Standard		Network Port	1 (10/100 Mbps Ethernet port, RJ-45)
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at
		General	
		Power Supply	53 VDC, 1.22 A
		Power Consumption	≤ 11W (with SSD) Total output power of PoE is 36 W,the maximum output power of asingle port is 25.5 W
		Net Weight	0.87 kg (1.92 lb)
		Gross Weight	1.72 kg (3.79 lb)
		Product Dimensions	260.0 mm × 232.5 mm × 47.6 mm (10.24" × 9.15" × 1.87") (W × D × H)
		Packaging Dimensions	374 mm × 119 mm × 311 mm (14.72" × 4.69" × 12.24") (W × D × H)
		Operating Temperature	−10 °C to +55 °C (14 °F to +131 °F)

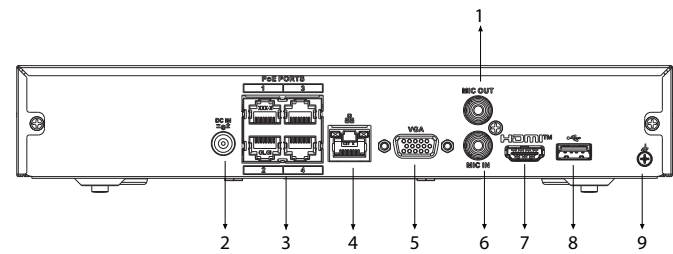
Storage Temperature	−20 °C to +60 °C (−4 °F to +140 °F)
Operating Humidity	10%–93% (RH), non-condensing
Installation	Rack or desktop
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014

Ordering Information		
Type	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR4104HS-P-4KS3(960GB)	4CH Compact 1U 4PoE 1SSD 960GB Lite Network Video Recorder

Dimensions (mm[inch])



Panels



- 1 AUDIO OUT, RCA Connector
- 2 Power Input
- 3 PoE Ports
- 4 Network Port
- 5 VGA Port
- 6 AUDIO IN, RCA Connector
- 7 HDMI Port
- 8 USB Port
- 9 Ground