

DHI-NVR4104HS-4KS3(960GB)

4CH Compact 1U 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

Pre-installed SSD

Unlike the traditional NVR, S-NVR comes with the SDD 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.

- · 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.
- Al 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 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.

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.

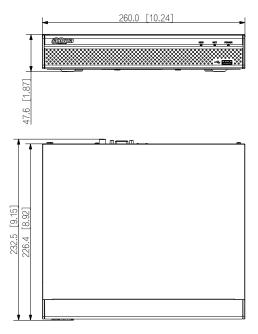
Technical Specification		Audio Compression	G.711a; G.711u; PCM; G726	
System		Network		
Main Processor	Industrial-grade processor	reework	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS;	
Operating System	Embedded Linux	Network Protocol	SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)	
Operating Interface	Web, Local GUI	Mobile Phone Access	iOS; Android	
Al		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
AI by Recorder	SMD Plus	Browser	Chrome; IE; Safari; Edge; Firefox	
Al 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 Al by Camera (Number of	4 channels	Record Mode	General; motion detection; intelligent; alarm	
Channels)		Backup Method	USB device and network	
Face Detection		Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Alarm		
Face Detection Performance of Al by	4 channels	General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
Camera (Number of Channels)	Tollimeis	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception	
Face Recognition		Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
Performance of AI by Camera (Number of Channels)	4 channels	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
SMD Plus		Port		
	4 channels: Secondary filtering for human and motor	Audio Input	1-channel RCA	
SMD Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Audio Output	1-channel RCA	
SMD Plus by Camera	4 channels	Alarm Input	NA (2 channels are optional)	
Audio and Video		Alarm Output	NA (1-channel 12 V 1 A output is optional)	
Access Channel	4 channels	Disk Interface	960 GB SSD (pre-installed)	
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p;	HDMI	1	
	720p; D1; CIF; QCIF Al disabled: 1-channel 12 MP@30 fps; 2-channel 8	VGA	1	
Decoding Capability	MP@30 fps; 3-channel 12 MP@30 fps; 4-channel 8 MP@30 fps 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps Al 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	Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
		General		
		Power Supply	12 VDC, 2 A	
	1 HDMI, 1 VGA Simultaneous:	Power Consumption	<11 W (with SSD)	
Video Output	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Net Weight	0.81 kg (1.79 lb)	
video output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Gross Weight	1.38 kg (3.04 lb)	
		Product Dimensions	260.0 mm × 232.5 mm × 47.6 mm(10.24" × 9.15" × 1.87") (W × D × H)	
Multi-screen Display	Main Screen: 1/4 Sub Screen: 1/4	Packaging Dimensions	334 mm \times 89 mm \times 314 mm (13.15" \times 3.50" \times 12.36") (W \times D \times H)	
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Compression Standard		Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	Operating Humidity	10%–93% (RH), non-condensing	

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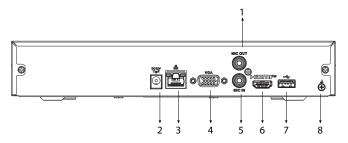
Installation	Rack or desktop
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014

Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	DHI-NVR4104HS- 4KS3(960GB)	4CH Compact 1U 1SSD 960GB Lite NETWORK VIDEO RECORDER		

Dimensions (mm[inch])



Panels



- 1 AUDIO OUT, RCA Connector
- 2 Power Input
- 3 Network Port
- VGA Port
- 5 AUDIO IN, RCA Connector
- **HDMI** Port

7 USB Port

3 Ground