

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 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.

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.
- 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 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.

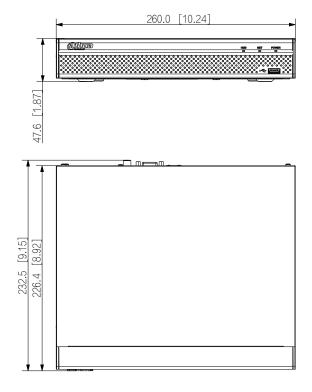
Technical Specification		Audio Compression	G.711a; G.711u; PCM; G726	
System		Network	Network	
Main Processor	Industrial-grade processor	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera,	
Operating System	Embedded Linux		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 Channels)	4 channels	Record Mode	General; motion detection; intelligent; alarm	
Face Detection		Backup Method	USB device and network	
	6 attributes	Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback	
Face Attributes	o accidates	Alarm		
Face Detection Performance of AI by Camera (Number of	4 channels	General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
Channels) Face Recognition		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflic MAC conflict; login locked; and cybersecurity exception	
Face Recognition Performance of Al by Camera (Number of Channels)	4 channels	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
		Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
SMD Plus		Port		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Audio Input	1-channel RCA	
		Audio Output	1-channel RCA	
SMD Plus by Camera 4 channels		Alarm Input	NA (2 channels is optional)	
Audio and Video		Alarm Output	NA (1-channel 12 V 1 A output is optional)	
Access Channel	4 channels	HDD Interface	1 SSD: 960 GB	
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; 720p; D1; CIF; QCIF	HDMI	1	
Decoding Capability	Al 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 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	VGA	1	
		Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
		PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at	
		General		
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	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)	
Multi-screen Display	Main Screen: 1/4 Sub Screen: 1/4	Gross Weight	1.72 kg (3.79 lb)	
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	Product Dimensions	260.0 mm \times 232.5 mm \times 47.6 mm (10.24" \times 9.15" \times 1.87") (W \times D \times H)	
Compression Standard		Packaging Dimensions	374 mm × 119 mm × 311 mm (14.72" × 4.69" × 12.24") (W × D × H)	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	

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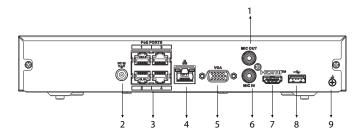
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)	
Operating Humidity	10%–93% (RH), non-condensing	
Installation	Rack or desktop	
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: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

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

Dimensions (mm[inch])



Panels



- AUDIO OUT, RCA Connector
- 3 PoE Ports
- 5 VGA Port
- 7 HDMI Port
- 9 Ground

- 2 Power Input
- 4 Network Port
- 6 AUDIO IN, RCA Connector
- 8 USB Port