

DHI-NVR4108HS-P-4KS3

8CH Compact 1U 4PoE 1HDD 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

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.

Face Recognition by Camera

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

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- · Max. decoding capability: 8 x 1080p@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.
- All 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.



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.

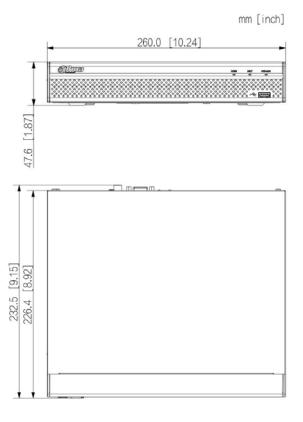
Technical Specification	on	Compression Standa	ard	
System		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	
Main Processor	Industrial-grade processor	Audio Compression	G.711a; G.711u; PCM; G726	
Operating System	Embedded Linux	Network		
Operating Interface	Web, Local GUI	Network Protocol	HTTP; 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.)	
Al by Recorder	SMD Plus	Mobile Phone Access	iOS; Android	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
Perimeter Protection		Browser	Chrome; IE; Safari; Edge; Firefox	
		Recording Playback	Recording Playback	
Perimeter Performance of AI by Camera (Number of Channels)	6 channels	Multi-channel Playback	Up to 8 channels	
•		Record Mode	General, motion detection; intelligent; alarm	
Face Detection	Condor; ago group, glassos, everessions, face masks	Backup Method	USB device and network	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback	
Face Detection Performance of AI by Camera (Number of	6 channels	Alarm		
Channels)		General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm	
Face Recognition Face Recognition Performance of AI by		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception	
Camera (Number of Channels)	6 channels	Intelligent Alarm	Face detection; face recognition; perimeter protection SMD Plus; people counting; stereo analysis; heat map	
SMD Plus		Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email	
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Port		
SMD Plus by Camera	6 channels	Audio Input	1-channel RCA	
Audio and Video		Audio Output	1-channel RCA	
Access Channel	8 channels	Alarm Input	NA (2 channels is optional)	
	80 Mbps incoming, 80 Mbps recording and 60 Mbps	Alarm Output	NA (1-channel 12 V 1 A output is optional)	
Network Bandwidth	outgoing	Disk Interface	1 SATA port. Each disk can contain up to 20 TB. This lim varies depending on the environment temperature.	
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)	
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; 8-channel 1080p@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	HDMI	1	
		VGA	1	
		Network Port	1 (10/100 Mbps Ethernet port, RJ-45)	
	MP@30 fps; 7-channel 1080p@30 fps	PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at	
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	General		
		Power Supply	53 VDC, 1.22 A	
		Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 36 W, the maximum output power of a single port is 25.5 W	
Multi-screen Display	Main Screen: 1/4/8/9 Sub Screen: 1/4/8/9	Net Weight	0.87 kg (1.92 lb)	
	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon;	Gross Weight	1.72 kg (3.79 lb)	
Third-party Camera Access	Hanwha	Product Dimensions	260.0 mm × 232.5 mm × 47.6 mm(10.24" × 9.15" × 1.87") (W × D × H)	

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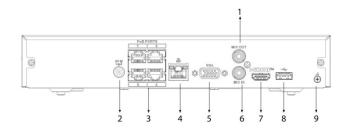
Packaging Dimensions	374 mm x 119 mm x 311 mm (14.72" x 4.69" x 12.24") (W x D x H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
Installation	Rack or desktop		
Certifications	CE-EMC: 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-IVD: EN 62368-1:2014		

Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	DHI-NVR4108HS-P-4KS3	8CH Compact 1U 4PoE 1HDD Lite Network Video Recorder		

Dimensions (mm[inch])



Panels



- 1 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
 - **USB Port**