

DHI-NVR4108HS-4KS3

8CH Compact 1U 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.
- · Al 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.

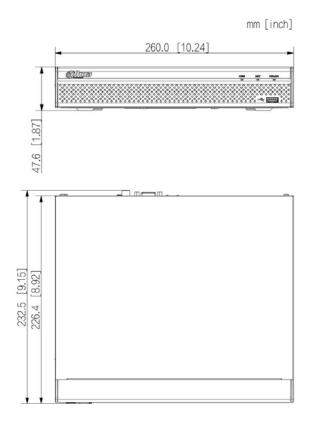
Technical Specification	on		Compression Standa	
			/ideo Compression	
System		Audio Compressio	n	
ain Processor	Industrial-grade processor Embedded Linux	Network		
Operating System Operating Interface	Web, Local GUI			
AI		Network Protocol	Network Protocol	
Al by Recorder	SMD Plus	Mobile Phone Access		
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	Interoperability		
Perimeter Protection		Browser		
Perimeter Performance of AI by Camera (Number of	6 channels	Recording Playback	Recording Playback Multi-channel Playback	
Channels)		Record Mode		
Face Detection				
Face Attributes	Gender; age group; glasses; expressions; face mask;	Backup Method		
Face Detection	beard	Playback Mode		
Performance of AI by Camera (Number of	6 channels	Alarm		
Channels)		General Alarm		
Face Recognition Face Recognition		Anomaly Alarm		
Performance of AI by Camera (Number of Channels)	6 channels	Intelligent Alarm		
SMD Plus		Alarm Linkage		
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		
Audio and Video		Audio Output		
Access Channel	9 shannals	Alarm Input		
Access Channel	8 channels	Alarm Output		
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	HDD Interface		
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	USB		
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 MP@30 fps; 7-channel 1080p@30 fps	HDMI		
		VGA		
		Network Port		
	1 HDMI, 1 VGA	General		
Video Output	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		
		Power Consumption		
		Net Weight		
		Gross Weight		
Multi-screen Display	Main Screen: 1/4/8/9 Sub Screen: 1/4/8/9	Product Dimensions		
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	Packaging Dimensions		

NVR4000-4KS3 Series | DHI-NVR4108HS-4KS3

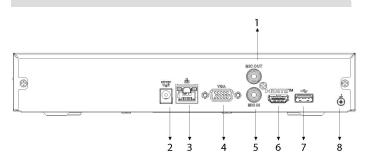
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–93% (RH), non-condensing
Installation	Rack or desktop
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3- 3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014

Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	DHI-NVR4108HS-4KS3	8CH Compact 1U 1HDD 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
- 6 HDMI Port

7 USB Port

Ground