

DHI-NVR4108-4KS3

8CH Smart 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.
- · 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.















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.

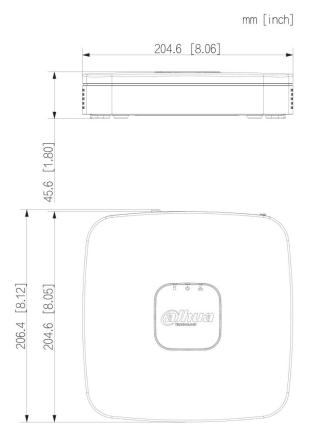
Technical Specification	on		Compression Standa		
			eo Compression		
System		Audio Compression			
ain Processor	Industrial-grade processor	Network			
Operating System	Embedded Linux Web, Local GUI	Network			
Operating Interface	web, total Gui	Network Protocol	Network Protocol		
Al by Recorder	SMD Plus	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		Recording Playba	Recording Playback		
Al by Camera (Number of Channels)	6 channels	Multi-channel Playback			
Face Detection		Record Mode			
	Gender: age group: glasses: expressions: face mask.				
Face Attributes Face Detection	beard	Playback Mode			
Performance of AI by Camera (Number of	6 channels	Alarm			
Channels)		General Alarm			
Face Recognition	6 channels	Anomaly Alarm			
Performance of AI by Camera (Number of 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	8 channels	Alarm Input			
	80 Mbps incoming, 80 Mbps recording and 60 Mbps	Alarm Output			
Network Bandwidth	outgoing 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p;	Disk Interface			
Resolution	720p; D1; CIF; QCIF	USB			
	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			
Decoding Capability		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-NVR4108-4KS3

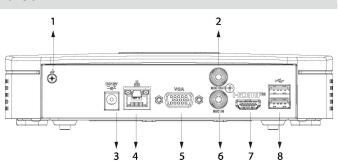
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Operating Humidity	10%–93% (RH), non-condensing
Installation	Rack or desktop
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3- 3:2013+A1:2019+A2:2021; 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-NVR4108-4KS3	8CH Smart 1U 1HDD Lite Network Video Recorder		

Dimensions (mm[inch])



Panels



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