

DHI-NVR4104-4KS3

4CH 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 or 4 x 4 MP@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.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, people counting, stereo analysis and heat man.
- · 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.

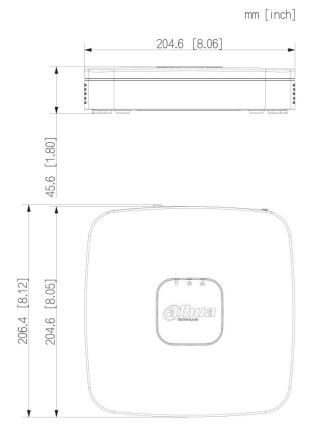
Technical Specification	on		Compression Standa
	,	Video Com	
System		Audio Compression	
Main Processor	Industrial-grade processor	Network	
Operating System	Embedded Linux	Network	
Operating Interface	Web, Local GUI	Network Protocol	
Al by Recorder	SMD Plus	Mobile Phone Access	
Al by Camera	Face detection;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

NVR4000-4KS3 Series | DHI-NVR4104-4KS3

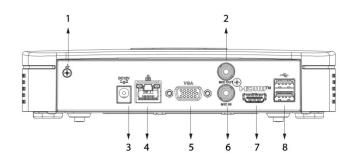
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
Installation	Rack or desktop		
Certifications	CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3- 2:2019+A1:2021; EN 61000-3- 3:2013+A1:2019+A2:2021; 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-NVR4104-4KS3	4CH Smart 1U 1HDD Lite Network Video Recorder		

Dimensions (mm[inch])



Panels



- 1 Ground
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- 3 Power Input5 VGA Port
- 7 HDMI Port
- 2 AUDIO OUT, RCA Connector
- 4 Network Port
- 6 AUDIO IN, RCA Connector
- 8 USB Ports