

DHI-NVR4104HS-P-4KS3

4CH 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 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.
- · 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.

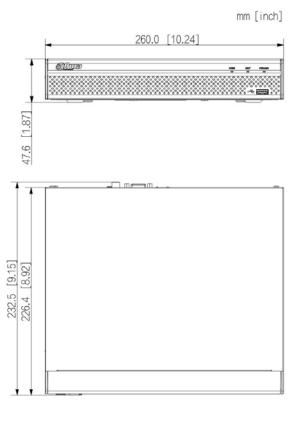
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Technical Specification	on		Compression Stand	
System		Video Compress		
ain Processor	Industrial-grade processor	Audio Compression		
Operating System	Embedded Linux	Network		
Operating Interface	Web, Local GUI	Network Protocol		
Al by Recorder	SMD Plus	Mobile Phone Access		
Al by Camera	Face detection; face recognition; perimeter protection;	Interoperability		
	SMD Plus; people counting; stereo analysis; heat map	Browser	Browser Chrome; IE; Safari; Edge; Firefox	
Perimeter Protection		Recording Playba	ack	
Perimeter Performance of AI by Camera (Number of Channels)	4 channels		Multi-channel Playback	
,		Record Mode		
Face Detection		Backup Method		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Playback Mode		
Face Detection Performance of AI by Camera (Number of	4 channels	Alarm	Alarm	
Channels)		General Alarm		
Face Recognition ace Recognition erformance of AI by		Anomaly Alarm		
amera (Number of hannels)	4 channels	Intelligent Alarm		
SMD Plus		Alarm Linkage		
MD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Port	Port	
MD Plus by Camera	4 channels	Audio Input		
Audio and Video		Audio Output	Audio Output 1-channel RCA	
ccess Channel	4 channels	Alarm Input		
	80 Mbps incoming, 80 Mbps recording and 60 Mbps	Alarm Output		
Network Bandwidth	outgoing	Disk Interface		
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	USB		
	All disabled: 1-channel 12 MP@30 fps; 2-channel 8	HDMI		
Decoding Capability	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	VGA		
		Network Port		
	MP@30 fps	PoE Port		
Video Output	1 HDMI, 1 VGA Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	General		
	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Power Supply		
	Heterogeneous: HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Power Consumption		
Multi-screen Display	Main Screen: 1/4 Sub Screen: 1/4	Net Weight		
Third-party Camora Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon;	Gross Weight		
Third-party Camera Access	Hanwha	Product Dimensions		

NVR4000-4KS3 Series | DHI-NVR4104HS-P-4KS3

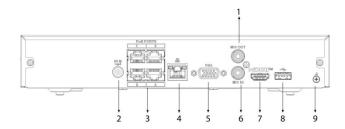
Packaging Dimensions	374 mm x 119 mm x 311 mm (14.72" x 4.69" x 12.24") (W x D x H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	-20 °C to +60 °C (-4 °F to +140 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
Installation	Rack or desktop		
Certifications	CE-EMC: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

Ordering Information				
Туре	Model	Description		
NETWORK VIDEO RECORDER	DHI-NVR4104HS-P-4KS3	4CH 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**