

DHI-NVR4204-4KS3

4CH 1U 2HDDs 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. 160/160/80 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 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.

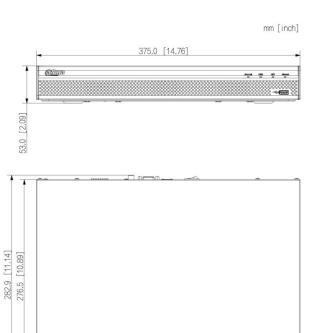
Technical Specification	on			
System	/··		Third-party Camera Access	
Aain Processor	Industrial-grade processor		Compression Standa	
Operating System	Embedded Linux		Video Compression	
Operating Interface	Web, Local GUI		Audio Compression	
Al	Web, Eddi Gol		Network	
Al by Recorder	SMD Plus			
·	Face detection; face recognition; perimeter protection;		Network Protocol	
Al by Camera	SMD Plus; people counting; stereo analysis; heat map		Mobile Phone Access	
Perimeter Protection			Interoperability	
Perimeter Performance of Al by Camera (Number of	4 channels		Browser	
Channels)			Recording Playback	
Face Detection			Multi-channel Playback	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard		Record Mode	
Face Detection		В	ackup Method	
Performance of AI by Camera (Number of Channels)	4 channels		Playback Mode	
Face Recognition		S	itorage	
Face Recognition Performance of Al by Camera (Number of Channels)		Disk G	iroup	
	4 channels	Alarm	ı	
		General Aları	m	
SMD Plus				
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Anomaly Alarm	Anomaly Alarm	
SMD Plus by Camera	4 channels	Intelligent Alarm		
Audio and Video		Alarm Linkage		
Access Channel	4 channels	Port		
Network Bandwidth	Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing	Audio Input		
iverwork Bandwigth	Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Audio Output		
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p;	Alarm Input		
	720p; D1; CIF; QCIF	Alarm Output		
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; 5-channel 5 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps 1 HDMI, 1 VGA Simultaneous: HDMI: 3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720 VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 Heterogeneous: HDMI: 1920 x 1080, 1280 x 1024, 1280 x 720 VGA: 1920 x 1080, 1280 x 1024, 1280 x 720	Disk Interface		
Decouning Capability		USB		
		HDMI		
Video Output		VGA		
		Network Port		
		General		
		Power Supply		
Multi-screen Display	Main Screen: 1/4	Power Consumption		
Joi cen Dispidy	Sub Screen: 1/4	Net Weight		

NVR4000-4KS3 Series | DHI-NVR4204-4KS3

Gross Weight	2.77 kg (6.11 lb)		
Product Dimensions	375.0 mm x 282.9 mm x 53.0 mm (14.76" x 11.14" x 2.09") (W x D x H)		
Packaging Dimensions	433.0 mm x 141.0 mm x 366.0 mm (17.05" x 5.55" x 14.41") (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-NVR4204-4KS3	4CH 1U 2HDDs Lite Network Video Recorder			

Dimensions (mm[inch])



Panels

