

DHI-NVR4208-4KS3

8CH 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.
- · Max. 160/160/80 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 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		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco Hanwha
System		Compression Standa	
Main Processor	Industrial-grade processor	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264
Operating System	Embedded Linux	•	
Operating Interface	Web, Local GUI	Audio Compression	G.711a; G.711u; PCM; G726
Al		Network	
Al by Recorder	SMD Plus	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Al
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map		P2P; Auto Registration; IP Search (Supports DVR, NVS, etc.)
Darimeter Dretection		Mobile Phone Access	iOS; Android
Perimeter Protection		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); C
Perimeter Performance of AI by Camera (Number of Channels)	6 channels	Browser	Chrome; IE; Safari; Edge; Firefox
Face Detection		Recording Playback	
race Detection	Conden age group, glasses, oursessing for a surface	Multi-channel Playback	Up to 8 channels
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Record Mode	General, motion detection; intelligent; alarm
Face Detection Performance of AI by Camera (Number of Channels)		Backup Method	USB device and network
	6 channels	Playback Mode	Instant playback, general playback, event playback, smart playback
Face Recognition		Storage	
Face Recognition		Disk Group	Yes
Performance of AI by Camera (Number of	6 channels	Alarm	
Channels)		General Alarm	Motion detection; privacy masking; video lo changing; PIR alarm; IPC external alarm
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	Camera disconnection; storage error; disk fu conflict; MAC conflict; login locked; and cyb- exception
SMD Plus by Camera	6 channels	Intelligent Alarm	Face detection; face recognition; perimeter SMD Plus; people counting; stereo analysis;
•	o channels		Record; snapshot; IPC external alarm output
Audio and Video		Alarm Linkage	buzzer; log; preset; email
Access Channel	8 channels	Port	
Network Bandwidth	Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing	Audio Input	1-channel RCA
Network Bandwidth	Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Audio Output	1-channel RCA
Paralution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p;	Alarm Input	4 channels
Resolution	720p; D1; CIF; QCIF	Alarm Output	2 channels (1-channel 12 V 1 A output)
	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	Disk Interface	2 SATA ports. Each disk can contain up to 20 limit varies depending on the environment t
Decoding Capability		USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
		HDMI	1
Video Output	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	VGA	1
		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
			2 (20) 200) 2000 Mibbs Efficillet bolt, 10-43)
		General	
		Power Supply	12 VDC, 4 A
Multi-screen Display	Main Screen: 1/4/8/9 Sub Screen: 1/4/8/9	Power Consumption	Total output of NVR is <10 W(without HDD)
		Net Weight	1.49 kg (3.28 lb)



Net Weight

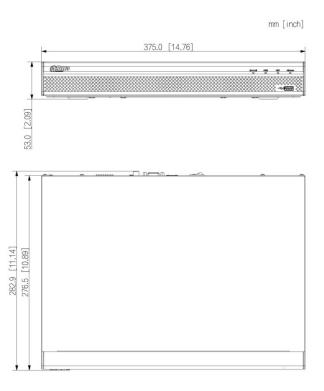
1.49 kg (3.28 lb)

NVR4000-4KS3 Series | DHI-NVR4208-4KS3

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-NVR4208-4KS3	8CH 1U 2HDDs Lite Network Video Recorder		

Dimensions (mm[inch])



Panels 1 Power Switch 3 Network Port 2 Power Input 4 VGA Port

6 HDMI Port

8 Ground 10 AUDIO OUT, RCA Connector

5 AUDIO IN, RCA Connector

7 USB Port

Alarm In/Out

