

DHI-NVR4208-8P-4KS3

8CH 1U 8PoE 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.
- · 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.

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Technical Specificatio	on	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canor Hanwha	
System		Compression Standa	Compression Standard	
Main Processor	Industrial-grade processor	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	
Operating System	Embedded Linux	Audio Compression	G.711a; G.711u; PCM; G726	
Operating Interface	Web, Local GUI		G./ 11u, G./ 11u, F.G.VI, G./ 20	
Al		Network		
Al by Recorder	SMD Plus	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; D SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Sen P2P; Auto Registration; IP Search (Supports IP came	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map		DVR, NVS, etc.)	
Perimeter Protection	1	Mobile Phone Access	iOS; Android	
Perimeter Performance of		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK	
I by Camera (Number of	6 channels	Browser	Chrome; IE; Safari; Edge; Firefox	
Channels)		Recording Playback		
Face Detection		Multi-channel Playback	Up to 8 channels	
ace Attributes	Gender; age group; glasses; expressions; face mask; beard	Record Mode	General, motion detection; intelligent; alarm	
ace Detection		Backup Method	USB device and network	
Performance of AI by Camera (Number of Channels)	6 channels	Playback Mode	Instant playback, general playback, event playback, playback, smart playback	
Face Recognition		Storage		
		Disk Group	Yes	
Face Recognition Performance of AI by Camera (Number of	6 channels	Alarm		
Channels)		General Alarm	Motion detection; privacy masking; video loss; scenchanging; PIR alarm; IPC external alarm	
SMD Plus	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 full; IP conflict; MAC conflict; login locked; and cyber secu exception	
MD Plus by Camera	6 channels	Intelligent Alarm	Face detection; face recognition; perimeter protect SMD Plus; people counting; stereo analysis; heat m	
Audio and Video		Alarm Linkage	Record; snapshot; IPC external alarm output; audio buzzer; log; preset; email	
ccess Channel	8 channels	Port		
	Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Audio Input	1-channel RCA	
Network Bandwidth		Audio Output	1-channel RCA	
		Alarm Input	4 channels	
esolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 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 TB. Thi	
Decoding Capability		USB	limit varies depending on the environment temper 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)	
		PoE Port General	8 ports, 10/100 Mbps, IEEE 802.3 af/at	
		Power Supply	100–240 VAC, 50/60 Hz	
Multi-screen Display	Main Screen: 1/4/8/9 Sub Screen: 1/4/8/9	rowei suppiy	100-240 VAC, 30/00 HZ	

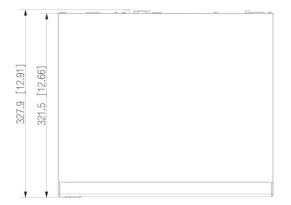
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Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of a single port is 25.5W	
Net Weight	2.47 kg (5.45 lb)	
Gross Weight	3.68 kg (8.11 lb)	
Product Dimensions	375.0 mm x 327.9 mm x 53.0 mm (14.76" x 12.91" x 2.09") (W x D x H)	
Packaging Dimensions	451.0 mm x 147.0 mm x 425.0 mm (17.76" x 5.79" x 16.73") (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-NVR4208-8P-4KS3	8CH 1U 8PoE 2HDDs Lite Network Video Recorder		

Dimensions (mm[inch])





Panels

