

DHI-NVR4108-8P-4KS3

8CH Smart 1U 8PoE 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 × 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 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

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System		
Main Processor	Industrial-grade processor	
Operating System	Embedded Linux	
Operating Interface	Web, Local GUI	
AI		
AI by Recorder	SMD Plus	
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map	
Perimeter Protection		
Perimeter Performance of AI by Camera (Number of Channels)	6 channels	
Face Detection		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	
Face Detection Performance of AI by Camera (Number of Channels)	6 channels	
Face Recognition		
Face Recognition Performance of AI by Camera (Number of Channels)	6 channels	
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	
SMD Plus by Camera	6 channels	
Audio and Video		
Access Channel	8 channels	
Network Bandwidth	AI disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing AI enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	
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; 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	
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	
Multi-screen Display	Main Screen: 1/4/8/9 Sub Screen: 1/4/8/9	

Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha		
Compression Standard			
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264		
Audio Compression	G.711a; G.711u; PCM; G726		
Network			
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)		
Mobile Phone Access	iOS; Android		
Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK		
Browser	Chrome; IE; Safari; Edge; Firefox		
Recording Playback			
Multi-channel Playback	Up to 8 channels		
Record Mode	General, motion detection; intelligent; alarm		
Backup Method	USB device and network		
Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback		
Alarm			
General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm		
Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception		
Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map		
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email		
Port			
Audio Input	1-channel RCA		
Audio Output	1-channel RCA		
Alarm Input	NA (2 channels is optional)		
Alarm Output	NA (1-channel 12 V 1 A output is optional)		
Disk Interface	1 SATA port. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.		
USB	2 (2 rear USB 2.0 ports)		
HDMI	1		
VGA	1		
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
PoE Port	8 ports, 10/100 Mbps, IEEE 802.3 af/at		
General			
Power Supply	53 VDC, 1.81 A		
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 72 W, the maximum output power of a single port is 25.5 W		
Net Weight	0.69 kg (1.52 lb)		

NVR4000-4KS3 Series | DHI-NVR4108-8P-4KS3

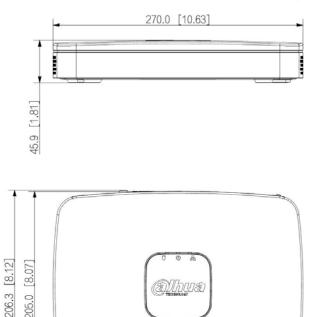
Gross Weight	1.74 kg (3.84 lb)	
Product Dimensions	270.0 mm x 206.3 mm x 45.9 mm (10.63" x 8.12" x 1.81") (W x D x H)	
Packaging Dimensions	427 mm × 96 mm × 262 mm (16.81" × 3.78" × 10.31") (W × D × H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °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-NVR4108-8P-4KS3	8CH Smart 1U 8PoE 1HDD Lite Network Video Recorder

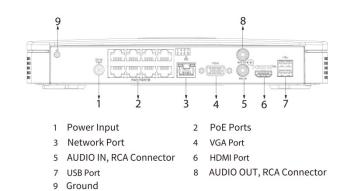
Dimensions (mm[inch])

mm [inch]



MS

Panels



Rev 002.000