

DHI-NVR4108HS-8P-4KS3

8CH Compact 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 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 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	nn -		ONIVIE Panacanics Const. Asia: Assault Palace		
	011	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Ca 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	Network			
Al			HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCI		
Al by Recorder	SMD Plus	Network Protocol	SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm S P2P; Auto Registration; IP Search (Supports IP car DVR, NVS, etc.)		
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map				
Perimeter Protection		Mobile Phone Access	iOS; Android		
Perimeter Performance of		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; S		
Al by Camera (Number of Channels)	6 channels	Browser	Chrome; IE; Safari; Edge; Firefox		
,		Recording Playback			
Face Detection		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		Backup Method	USB device and network		
Performance of AI by Camera (Number of Channels)	6 channels	Playback Mode	Instant playback, general playback, event playbac playback, smart playback		
Face Recognition		Alarm			
Face Recognition Performance of AI by Camera (Number of Channels) 6 channels		General Alarm	Motion detection; privacy masking; video loss; so changing; PIR alarm; IPC external alarm		
	6 channels	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersed exception		
SMD Plus		Intelligent Aleum	Face detection; face recognition; perimeter prote		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and	Intelligent Alarm	SMD Plus; people counting; stereo analysis; heat Record; snapshot; IPC external alarm output; aud		
SMD Plus by Camera	lighting condition change 6 channels	Alarm Linkage	buzzer; log; preset; email		
•	o ciumines	Port			
Audio and Video		Audio Input	1-channel RCA		
Access Channel	8 channels	Audio Output	1-channel RCA		
Network Bandwidth	Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Alarm Input	NA (2 channels is optional)		
Network Balluwidtii		Alarm Output	NA (1-channel 12 V 1 A output is optional)		
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	Disk Interface	1 SATA port. Each disk can contain up to 20 TB. T varies depending on the environment temperature		
	Al disabled: 1-channel 12 MP@30 fps; 2-channel 8	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)		
Decoding Capability	MP@30 fps; 3-channel 5 MP@30 fps; 4-channel 4 MP@30 fps; 8-channel 1080p@30 fps	HDMI	1		
Decouning Capability	Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4	VGA	1		
	MP@30 fps; 7-channel 1080p@30 fps	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
	1 HDMI, 1 VGA Simultaneous: HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous:	PoE Port	8 ports, 10/100 Mbps, IEEE 802.3 af/at		
		General			
		Power Supply	53 VDC, 1.81 A		
Video Output	Heterogeneous:	1 Ower Supply			
Video Output	Heterogeneous: HDMI: 1920 x 1080, 1280 x 1024, 1280 x 720 VGA: 1920 x 1080, 1280 x 1024, 1280 x 720 Main Screen: 1/4/8/9	Power Consumption	Total output of NVR is <10 W(without HDD) Tota power of PoE is 72 W,the maximum output power a single port is 25.5 W		

NVR4000-4KS3 Series | DHI-NVR4108HS-8P-4KS3

Gross Weight	2.05 kg (4.52 lb)	
Product Dimensions	260.0 mm x 232.5 mm x 47.6 mm(10.24" x 9.15" x 1.87") (W x D x H)	
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-NVR4108HS-8P-4KS3	8CH Compact 1U 8PoE 1HDD Lite Network Video Recorder		

Dimensions (mm[inch])



