

# 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.
- · 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		Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha		
System		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		INCLWOTK	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS;		
Al by Recorder	SMD Plus  Face detection; face recognition; perimeter protection;	Network Protocol	SMTP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.)		
AI by Camera	SMD Plus; people counting; stereo analysis; heat map	Mobile Phone Access	iOS; Android		
Perimeter Protection		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK		
Perimeter Performance of Al by Camera (Number of	6 channels	Browser	Chrome; IE; Safari; Edge; Firefox		
Channels)		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	beard	Backup Method	USB device and network		
Performance of AI by Camera (Number of Channels)	6 channels	Playback Mode	Instant playback, general playback, event playback, tag 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; scene changing; PIR alarm; IPC external alarm		
		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception		
SMD Plus		Intelligent Alexan	Face detection; face recognition; perimeter protection;		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Intelligent Alarm	SMD Plus; people counting; stereo analysis; heat map  Record; snapshot; IPC external alarm output; audio;		
SMD Plus by Camera	6 channels	Alarm Linkage	buzzer; log; preset; email		
	o channels	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	Alarm Input	NA (2 channels is optional)		
nethon bandinan	Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	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	$1\mbox{SATA}$ port. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.		
	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	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)		
Decoding Capability		HDMI	1		
Decouning Capability		VGA	1		
		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
Video Output	1 HDMI, 1 VGA Simultaneous:	PoE Port	8 ports, 10/100 Mbps, IEEE 802.3 af/at		
	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	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		
Multi-screen Display	Main Screen: 1/4/8/9 Sub Screen: 1/4/8/9	Net Weight	0.92 kg (2.03 lb)		
		IACT AACIRIIT	0.32 1/5 (2.03 10)		

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

Gross Weight	2.05 kg (4.52 lb)	
Product Dimensions	260.0 mm <b>x</b> 232.5 mm <b>x</b> 47.6 mm(10.24" <b>x</b> 9.15" <b>x</b> 1.87") (W <b>x</b> D <b>x</b> H)	
Packaging Dimensions	374 mm $\times$ 119 mm $\times$ 311 mm (14.72" $\times$ 4.69" $\times$ 12.24") (W $\times$ D $\times$ 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])



