

# 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.
- · 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.

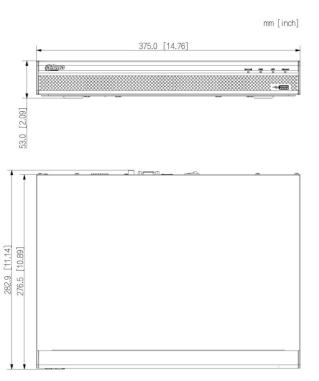
Technical Specification	on	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canc Hanwha
System		Compression Standard	
Main Processor	Industrial-grade processor	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264
Operating System	Embedded Linux	Audio Compression	G.711a; G.711u; PCM; G726
Operating Interface	Web, Local GUI		5.7 11a, 5.7 11a, 1 5.11, 5.725
Al		Network	LITTE LITTES TODAY IN A JE C LIEB ATTE DUCE
Al by Recorder	SMD Plus	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Se P2P; Auto Registration; IP Search (Supports IP cambur, NVS, etc.)
AI by Camera	Face detection; face recognition; perimeter protection;		
	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; SDI
Perimeter Performance of AI 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;	Record Mode	General, motion detection; intelligent; alarm
-	beard	Backup Method	USB device and network
Face Detection Performance of AI by Camera (Number of Channels)	6 channels	Playback Mode	Instant playback, general playback, event playback, 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 loss; sce 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	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurexception
SMD Plus by Camera	lighting condition change  6 channels	Intelligent Alarm	Face detection; face recognition; perimeter protec SMD Plus; people counting; stereo analysis; heat m
Audio and Video		Alarm Linkage	Record; snapshot; IPC external alarm output; audio buzzer; log; preset; email
Access Channel	8 channels	Port	
	Al disabled: 160 Mbps incoming, 160 Mbps recording and 80 Mbps outgoing	Audio Input	1-channel RCA
Network Bandwidth	All enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Audio Output	1-channel RCA
	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	Disk Interface	2 SATA ports. Each disk can contain up to 20 TB. Th limit varies depending on the environment temper
Decoding Capability	Al enabled: 1-channel 12 MP@30 fps; 1-channel 8 MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
	MP@30 fps; 2-channel 5 MP@30 fps; 3-channel 4 MP@30 fps; 7-channel 1080p@30 fps	HDMI	1
	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
Video Output		Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)
		General	, ,,pc. poid, ib
		Power Supply	12 VDC, 4 A
Multi-screen Display	Main Screen: 1/4/8/9	Power Consumption	Total output of NVR is <10 W(without HDD)
a.ci sereeli Dispiay	Sub Screen: 1/4/8/9	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 <b>x</b> 282.9 mm <b>x</b> 53.0 mm (14.76" <b>x</b> 11.14" <b>x</b> 2.09") (W <b>x</b> D <b>x</b> H)		
Packaging Dimensions	433.0 mm <b>x</b> 141.0 mm <b>x</b> 366.0 mm (17.05" <b>x</b> 5.55" <b>x</b> 14.41") (W <b>x</b> D <b>x</b> 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 | 2 | Power Input | 3 | Network Port | 4 | VGA Port | 5 | AUDIO IN, RCA Connector | 5 | AUDIO IN, RCA Connector | 9 | Alam In/Out | 10 | AUDIO OUT, RCA Connector | 10 | AUDIO OUT, RCA CONNECTOR