

# DHI-NVR4232-4KS3

32CH 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 or 2 x 8 MP@30 fps.
- Max. 160/128/60 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 12 MP.
- · Al by Recorder supports 2-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 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		Network	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DN	
Al by Recorder	SMD Plus  Face detection; face recognition; perimeter protection;	Network Protocol	SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Serve 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 AI by Camera (Number of	6 channels	Browser	Chrome; IE; Safari; Edge; Firefox	
Channels)		Recording Playback		
Face Detection		Multi-channel Playback	Up to 16 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 playback, ta 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; scene changing; PIR alarm; IPC external alarm	
SMD Plus	2 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 cybersecurity exception	
SMD Plus by Camera	6 channels	Intelligent Alarm	Face detection; face recognition; perimeter protectio SMD Plus; people counting; stereo analysis; heat map	
Audio and Video	o dialines	Alama Kaliana	Record; snapshot; IPC external alarm output; audio;	
Access Channel	23 channels	Alarm Linkage	buzzer; log; preset; email	
Access Chamler	32 channels	Port		
Network Bandwidth	Al disabled: 160 Mbps incoming, 128 Mbps recording and 60 Mbps outgoing	Audio Input	1-channel RCA	
	Al enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing	Audio Output	1-channel RCA	
Resolution	12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p;	Alarm Input	4 channels	
	720p; D1; CIF; QCIF	Alarm Output	2 channels (1-channel 12 V 1 A output )	
Decoding Capability	AI 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. This limit varies depending on the environment temperature.	
<b>5</b> . ,	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; 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		
		Power Supply	12 VDC, 4 A	
	Al disabled:	Power Consumption	Total output of NVR is <10 W(without HDD)	
Multi-screen Display	Main Screen: 1/4/8/9/16/25/36, Sub Screen: 1/4/8/9/16 Al enabled: Main Screen: 1/4/8/9/16, Sub Screen: 1/4/8/9/16	Net Weight	1.49 kg (3.28 lb)	
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## NVR4000-4KS3 Series | DHI-NVR4232-4KS3

Gross Weight	2.77 kg (6.11 lb)	
Product Dimensions	375.0 mm × 282.9 mm × 53.0 mm (14.76" ×11.14" × 2.09") (W × D × H)	
Packaging Dimensions	433.0 mm × 141.0 mm × 366.0 mm (17.05" × 5.55" × 14.41") (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-NVR4232-4KS3	32CH 1U 2HDDs Lite Network Video Recorder		

### Dimensions (mm[inch])



