

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 × 1080p@30 fps or 2 × 8 MP@30 fps.
- Max. 160/128/60 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 12 MP.
- AI 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

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System Main Processor	Industrial-grade processor		
Operating System	Embedded Linux		
Operating Interface	Embedded Linux Web, Local GUI		
Al			
Al 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 Al 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	2 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	32 channels		
Network Bandwidth	AI disabled: 160 Mbps incoming, 128 Mbps recording and 60 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	Al disabled: 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		

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 16 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			
Storage				
Disk Group	Yes			
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	4 channels			
Alarm Output	2 channels (1-channel 12 V 1 A output)			
Disk Interface	2 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.			
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	12 VDC, 4 A			
Power Consumption	Total output of NVR is <10 W(without HDD)			
Net Weight	1.49 kg (3.28 lb)			

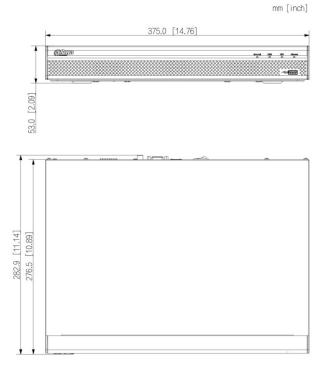
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Gross Weight	2.77 kg (6.11 lb)	
Product Dimensions	375.0 mm x 282.9 mm x 53.0 mm (14.76" x11.14" x 2.09") (W x D x H)	
Packaging Dimensions	433.0 mm x 141.0 mm x 366.0 mm (17.05" x 5.55" x 14.41") (W x D x H)	
Operating Temperature	-10 °C to +55 °C (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	

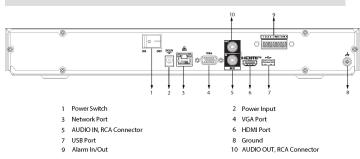
Ordering Information

Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR4232-4KS3	32CH 1U 2HDDs Lite Network Video Recorder

Dimensions (mm[inch])



Panels



Rev 002.000