

DHI-NVR4232-16P-4KS3

32CH 1U 16PoE 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 System Main Processor Industrial-grade processor **Operating System** Embedded Linux **Operating Interface** Web, Local GUI AI AI by Recorder SMD Plus Face detection; face recognition; perimeter protection; AI by Camera SMD Plus; people counting; stereo analysis; heat map Perimeter Protection Perimeter Performance of AI by Camera (Number of 6 channels Channels) **Face Detection** Gender; age group; glasses; expressions; face mask; **Face Attributes** beard Face Detection Performance of AI by 6 channels Camera (Number of Channels) Face Recognition **Face Recognition** Performance of AI by 6 channels Camera (Number of Channels) SMD Plus 4 channels: Secondary filtering for human and motor SMD Plus by Recorder 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 Al disabled: 160 Mbps incoming, 128 Mbps recording and 60 Mbps outgoing Network Bandwidth AI enabled: 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; Resolution 720p; D1; CIF; QCIF 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

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

HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×

Main Screen: 1/4/8/9/16/25/36, Sub Screen: 1/4/8/9/16

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VGA: 1920 × 1080, 1280 × 1024, 1280 × 720

HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720

1 HDMI, 1 VGA Simultaneous:

Heterogeneous:

AI disabled:

AI enabled:

720

Decoding Capability

Video Output

Multi-screen Display

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 cyber security 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.					
RS-232	1					
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)					
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at					
General						
Power Supply	100–240 VAC, 50/60 Hz					

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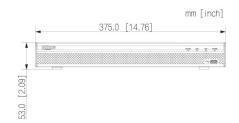
NVR4000-4KS3 Series | DHI-NVR4232-16P-4KS3

Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 130W,the maximum output power of a single port is 25.5W
Net Weight	2.60 kg (5.73 lb)
Gross Weight	3.80 kg (8.38 lb)
Product Dimensions	375.0 mm × 327.9 mm × 53.0 mm (14.76" × 12.91" × 2.09") (W × D × H)
Packaging Dimensions	451.0 mm × 147.0 mm × 425.0 mm (17.76" × 5.79" × 16.73") (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

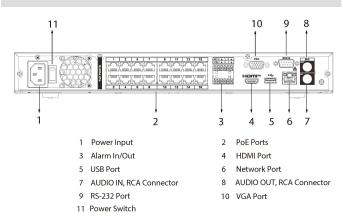
Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR4232-16P-4KS3	32CH 1U 16PoE 2HDDs Lite Network Video Recorder

Dimensions (mm[inch])



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32			
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Panels



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