

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.
- · 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 man
- · 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; Cano Hanwha | |
|---|--|---------------------------|--|--|
| System | | Compression Standa | Compression Standard | |
| Main Processor | Industrial-grade processor | Video Compression | Smart H.265+; H.265; Smart H.264+; H.264 | |
| perating System | Embedded Linux | Audio Compression | G.711a; G.711u; PCM; G726 | |
| perating Interface | Web, Local GUI | · | d./ 110, d./ 110, 1 c.W., d/20 | |
| ΑI | | Network | | |
| l by Recorder | SMD Plus | Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; I SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Ser P2P; Auto Registration; IP Search (Supports IP came | |
| AI by Camera | Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map | A4 1 11 D1 A | DVR, NVS, etc.) | |
| Perimeter Protection | | Mobile Phone Access | iOS; Android | |
| Perimeter Performance of | 6 channels | Interoperability | ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK | |
| by Camera (Number of nannels) | | Browser | Chrome; IE; Safari; Edge; Firefox | |
| , | | Recording Playback | | |
| ace Detection | | Multi-channel Playback | Up to 16 channels | |
| ace Attributes | Gender; age group; glasses; expressions; face mask; beard | Record Mode | General, motion detection; intelligent; alarm | |
| ice 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, playback, smart playback | |
| Face Recognition | | Storage | | |
| | | Disk Group | Yes | |
| Face Recognition Performance of AI by Camera (Number of | 6 channels | Alarm | | |
| hannels) | | General Alarm | Motion detection; privacy masking; video loss; sce changing; PIR alarm; IPC external alarm | |
| SMD Plus MD Plus by Recorder | 4 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 cybersecurexception | |
| MD Plus by Camera | 6 channels | Intelligent Alarm | Face detection; face recognition; perimeter protect SMD Plus; people counting; stereo analysis; heat m | |
| Audio and Video | | Alarm Linkage | Record; snapshot; IPC external alarm output; audic buzzer; log; preset; email | |
| ccess Channel | 32 channels | Port | , 3,1 | |
| | Al disabled: 160 Mbps incoming, 128 Mbps recording and 60 Mbps outgoing Al enabled: 80 Mbps incoming, 80 Mbps recording and | Audio Input | 1-channel RCA | |
| etwork Bandwidth | | | 1-channel RCA | |
| | 60 Mbps outgoing | Audio Output | | |
| esolution | 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF | Alarm Input | 4 channels | |
| 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 | Alarm Output | 2 channels (1-channel 12 V 1 A output) | |
| | | Disk Interface | 2 SATA ports. Each disk can contain up to 20 TB. Th limit varies depending on the environment temper | |
| | | USB | 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) | |
| | | HDMI | 1 | |
| 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 | VGA | 1 | |
| | | 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) | |
| | | | | |

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

| Gross Weight | 2.77 kg (6.11 lb) | | |
|-----------------------|---|--|--|
| Product Dimensions | 375.0 mm x 282.9 mm x 53.0 mm (14.76" x 11.14" 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])



