

DHI-NVR4104-4KS3

4CH Smart 1U 1HDD 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 4 x 4 MP@30 fps.
- Max. 80/80/60 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.

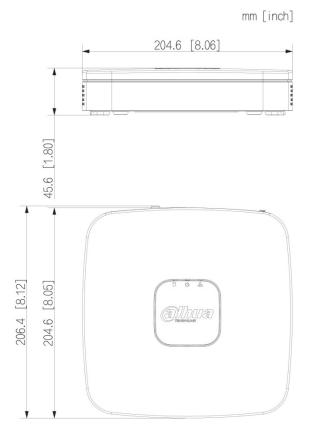
| Technical Specification | n | | Compression Standa |
|--|---|--------------------|------------------------|
| | | | Video Compression |
| System Main Processor | Industrial-grade processor | | Audio Compression |
| Operating System | Embedded Linux | | Network |
| Operating Interface | Web, Local GUI | | Network Protocol |
| Al by Recorder | SMD Plus | | Mobile Phone Access |
| Al by Camera | Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map | | Interoperability |
| Perimeter Protection | | | Browser |
| Perimeter Performance of | | Recording Playback | |
| Al by Camera (Number of Channels) | 4 channels | | Multi-channel Playback |
| Face Detection | | | Record Mode |
| | Gender; age group; glasses; expressions; face mask; | | Backup Method |
| Face Attributes | beard | | Playback Mode |
| Face Detection Performance of AI by | 4 channels | | Alarm |
| Camera (Number of Channels) | . Granicis | | General Alarm |
| Face Recognition | | | |
| Face Recognition Performance of Al by | A channels | | Anomaly Alarm |
| Camera (Number of Channels) | 4 channels | | Intelligent Alarm |
| SMD Plus | | | Alarm Linkage |
| SMD Plus by Recorder | 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and | | Port |
| 32 · 100 27 · 1000 100. | lighting condition change | | Port Audio Input |
| SMD Plus by Camera | 4 channels | | Audio Output |
| Audio and Video | | | Alarm Input |
| Access Channel | 4 channels | | Alarm Output |
| Network Bandwidth | 80 Mbps incoming, 80 Mbps recording and 60 Mbps outgoing | | Disk Interface |
| Resolution | 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF | | USB |
| | 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 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 | | НДМІ |
| Decoding Capability | | | VGA |
| Decouning Capability | | | Network Port |
| | | | General |
| 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 | | Power Supply |
| | | | Power Consumption |
| | | | Net Weight |
| | | | Gross Weight |
| Multi-screen Display | Main Screen: 1/4 Sub Screen: 1/4 | | Product Dimensions |
| Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha | | Packaging Dimensions |
| | Transvilla | | |

NVR4000-4KS3 Series | DHI-NVR4104-4KS3

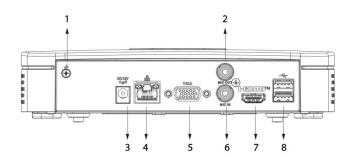
| Operating Temperature | -10 °C to +55 °C (14 °F to +131 °F) | |
|-----------------------|---|--|
| Storage Temperature | -20 °C to +60 °C (-4 °F to +140 °F) | |
| Operating Humidity | 10%–93% (RH), non-condensing | |
| Installation | Rack or desktop | |
| Certifications | CE-EMC: EN 55032:2015+A1:2020; 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-IVD: EN 62368-1:2014 | |

| Ordering Information | | | | |
|---------------------------|------------------|--|--|--|
| Туре | Model | Description | | |
| NETWORK VIDEO RECORDER | DHI-NVR4104-4KS3 | 4CH Smart 1U 1HDD Lite Network Video Recorder | | |

Dimensions (mm[inch])



Panels



- 1 Ground
- 3 Power Input
- 5 VGA Port
- 7 HDMI Port
- 2 AUDIO OUT, RCA Connector
- 4 Network Port
- 6 AUDIO IN, RCA Connector
- 8 USB Ports