



DHI-NVR5464-EI

64 Channels 1.5U 4HDD WizSense Network Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

The NVR5000-EI series offers outstanding performance and high-grade recording technology that make it ideal for IP video surveillance applications. It has a powerful processor, that offers high access and forwarding bandwidth and strong decoding capabilities that together produce unimpeded streams. Thanks to its built-in AI chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of AI functions, such as high-precision face recognition and perimeter protection. They shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

Face Detection

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

Dahua Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- · 32-channel 1080p self-adaptive decoding capability.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · Al by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- · AI by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- · Security baseline 2.3.



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.

ANPR by Camera

With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

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.

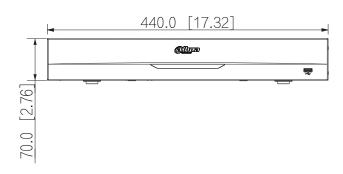
| Technical Specification | | Vehicle License Plate Comparison | |
|--|---|---|--|
| System | | ANPR by Camera (Number | 8 channels |
| Main Processor | Industrial-grade processor | of Channels) | 4.6 |
| Operating System | Embedded Linux | License Plate Database Capacity | Create up to 20,000 plate numbers. Blocklist and allowlist |
| Operating Interface | Web, Local GUI | Audio and Video | |
| Al | | Access Channel | 64 |
| Al by Recorder | Face detection; face recognition; perimeter protection; | 7 tocoss onamic | Al disabled: 384 Mbps incoming, 384 Mbps recording |
| AI by Camera | SMD Plus Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map | Network Bandwidth | and 384 Mbps outgoing All enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing |
| | | Resolution | 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF |
| Perimeter Protection | 1 | | Al disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 fps; |
| Perimeter Performance AI by Recorder (Number of Channels) | 4 channels, 10 IVS rules for each channel | Decoding Capability Al enabled: 1-channel 8 16-channel 8 1-channel 3 2-channel 1 4-channel 8 | |
| Perimeter Performance of AI by Camera (Number of Channels) | 16 channels | | 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps |
| Face Detection 2-channel VGA, 2-channel HD | | 2-channel VGA, 2-channel HDMI video output. | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard | Video Output | Heterogeneous video source output for HDMl1 and HDMl2 Simultaneous video source output for VGA1 and HDMl1 Simultaneous video source output for VGA2 and HDMl2 |
| Face Detection Performance of AI by Recorder (Number of | 2 channels (up to 12 face images/s each channel) | Multi-screen Display | Supports 4K display Main screen: 1/4/8/9/16/25/36/64 |
| Channels) | | | Sub screen: 1/4/8/9/16 |
| Face Detection Performance of AI by Camera (Number of | 16 channels | Third-party Camera Access Compression Standa | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung |
| Channels) | | · | |
| Face Recognition | | Video Compression | Smart H.265+; H.265; Smart H.264+; H.264; MJPEG |
| Face Database Capacity | Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and | Audio Compression Network | G.711a; G.711u; PCM; G726 |
| | state can be added to each face image. | | HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; UDP; SNMP; NTP; |
| Face Recognition Performance of AI by Recorder (Number of | 1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channe FD (by recorder) + FR (by recorder), video | Network Protocol | DHCP; DNS; SMTP; UPnP; IP Filter; PPPOE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration |
| Channels) | stream: 12 face images/s | Mobile Phone Access | iOS; Android |
| Face Recognition Performance of AI by | 1C abannala | Interoperability | ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK |
| Camera (Number of Channels) | 16 channels | Browser | Chrome IE 9 or later Firefox |
| SMD Plus | Onhannala Caranda (Clinica Colonia) | Network Mode | Multi-address mode, load balance, fault tolerance and other network port binding modes |
| SMD Plus by Recorder | 8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change | Recording Playback | other network port binding modes |
| SMD Plus by Camera | 16 channels | Multi-channel Playback | Up to 16 channels |
| Video Metadata | | Record Mode | General, motion detection; intelligent; alarm; POS |
| Metadata Performance of | | Backup Method | USB device and network |
| AI by Camera (Number of Channels) | 8 channels | Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) |
| Human Attributes | Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella | Storage | |
| Motor Vehicle Attributes | License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location. | Disk Group | YES |
| Non-motor Vehicle Attributes | Vehicle model, vehicle color, number of persons, helmet. | | |

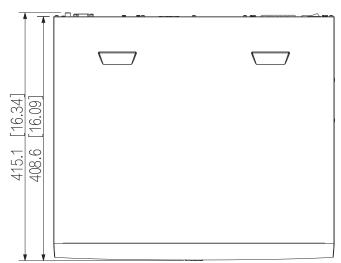
Wiz Sense | DHI-NVR5432-EI

| Alarm | | | | |
|-----------------------|---|--|--|--|
| General Alarm | Motion detection; privacy masking; local alarm | | | |
| Anomaly Alarm | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception | | | |
| Intelligent Alarm | Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map | | | |
| Alarm Linkage | Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email | | | |
| Port | | | | |
| Audio Input | 1-channel RCA | | | |
| Audio Output | 2-channel RCA | | | |
| Alarm Input | 16 channels | | | |
| Alarm Output | 6 channels (1-channel 12 V 1 A output) | | | |
| HDD Interface | 4 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature. | | | |
| eSATA | 1 | | | |
| RS-232 | 1 | | | |
| RS-485 | 1 (half-duplex serial communication) | | | |
| USB | 3(1 front USB 2.0 port, 2 rear USB 3.0 ports) | | | |
| HDMI | 2 | | | |
| VGA | 2 | | | |
| Network Port | 2 (10/100/1000 Mbps Ethernet port, RJ-45) | | | |
| General | | | | |
| Power Supply | 100–240 VAC, 50-60 Hz | | | |
| Power Consumption | Total output of NVR is ≤ 13 W (without HDD) | | | |
| Net Weight | 4.74 kg (10.45 lb) | | | |
| Gross Weight | 6.11 kg (13.47 lb) | | | |
| Product Dimensions | 440.0 mm \times 415.1 mm x 70.0 mm (17.32" \times 16.34" \times 2.76") (W \times D \times H) | | | |
| Packaging Dimensions | 530.0 mm \times 500.0 mm \times 210.0 mm (20.87" \times 19.69" \times 8.27")(W \times D \times 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) | | | |
| Installation | Rack or desktop | | | |
| Certifications | FCC: 47 CFR FCC Part15, SubpartB, Class A 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 | | |
| 64 Channels WizSense NVR | DHI-NVR5464-EI | 64 Channels 1.5U 4HDD WizSense Network Video Recorder | | |

Dimensions (mm[inch])





Panels

