

DHI-NVR4108-8P-EI

8CH Smart 1U 8PoE 1HDD 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

NVR4000-EI series is a new generation of network recorders that offers powerful decoding capabilities, and strong bandwidth. It features high-precision face recognition, perimeter protection, and SMD (Smart Motion Detection), which can distinguish target vehicles and humans from other types in real time. When connected with select IPC cameras, Quick Pick technology becomes available, allowing human and vehicle targets to be easily searched for and picked out. This network recorder is not only cost-effective, but also compatible with a wide variety of third-party devices, making it a great choice for small and medium-sized businesses.

Functions

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.

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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- · Access, storage or forwarding at 256 Mbps (180 Mbps when Alfunction enabled).
- \cdot Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding.
- · AI by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus.
- · Al by Camera: Face detection and recognition, perimeter protection; SMD Plus; people counting; stereo analysis; heat map.
- · Connected to the third-party network cameras.
- · Security baseline 2.3.



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.

Al Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

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.

Quick Pick

Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.



Wiz Sense | DHI-NVR4108-8P-EI

| Technical Specification | | | Al disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 6-channel 5 | |
|---|--|--------------------------|--|--|
| System | System | | MP@30 fps; 8-channel 4 MP@30 fps pability Al enabled: 1-channel 16 MP@30 fps; 2-channel | |
| Main Processor | Industrial-grade processor | | 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5 MP@30 fps; 6-channel 4 MP@30 fps; 8-channel | |
| Operating System | Embedded Linux | | 1080p@30 fps | |
| Operating Interface | Web; Local GUI | | 1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × | |
| Al | | Video Output | 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 | |
| Al by Recorder | Face detection, face recognition, perimeter protection, and SMD Plus | | *Simultaneous/heterogeneous video sources output fo VGA and HDMI is configurable. | |
| Al by Camera | Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map | Multi-screen I | Display 1st Screen: 1/4/8/9 2nd Screen: 1/4/8/9 | |
| Perimeter Protection | | Third-party Ca Access | amera Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF | |
| Perimeter Performance Al | | Compression Standard | | |
| by Recorder (Number of Channels) | 2 channels, 10 IVS rules for each channel | Video Compre | ession Smart H.265+; H.265; Smart H.264+; H.264; MJPEG | |
| Perimeter Performance of AI by Camera (Number of | 8 channels | Audio Compre | ession G.711a; G.711u; PCM; G726 | |
| Channels) | | Network | | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard | Network Prote | HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera DVR; NVS; etc.); P2P; auto register | |
| Face Detection Performance of AI by Recorder (Number of Channels) | 1 channel (up to 12 face images/s each channel) | Mobile Phone | | |
| | | Interoperabili | ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK | |
| Face Detection Performance of Al by Camera (Number of Channels) | 8 channels | Browser | Chrome; IE9 and later; Firefox | |
| | | Recording | Playback | |
| Face Recognition | | Multi-channel | I Playback Up to 8 channels | |
| Face Database Capacity | Up to 10 face databases with 200,00 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image. | Record Mode | General, motion detection; intelligent; alarm | |
| | | Backup Metho | od USB device and network | |
| | | Playback Mod | de Instant playback, general playback, event playback, tag playback, smart playback | |
| Face Recognition Performance of AI by | 8-channel FD (by camera) + FR (by recorder),image stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s | Alarm | | |
| Recorder (Number of Channels) | | General Alarm | Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm | |
| Face Recognition Performance of AI by Camera (Number of Channels) | 8 channels | Anomaly Aları | Camera disconnection; storage error; disk full; IP m conflict; MAC conflict; login locked; and cybersecurity exception | |
| SMD Plus | | Intelligent Ala | Face detection; face recognition; perimeter protection SMD Plus; people counting; stereo analysis; heat map | |
| SMD Plus by Recorder | 4 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and | Alarm Linkage | Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email | |
| CNAD Divis by Comment | lighting condition change | Port | | |
| SMD Plus by Camera | 8 channels | Audio Input | 1-channel RCA | |
| Audio and Video | | Audio Output | 1-channel RCA | |
| Access Channel | 8 channels | HDD Interface | 1 SATA port, up to 16 TB.The maximum HDD capacity | |
| Network Bandwidth | Al disabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing Al enabled: 180 Mbps incoming, 180 Mbps recording and 180 Mbps outgoing | USB | varies with environment temperature. 2 (2 rear USB 2.0 ports) | |
| | | HDMI | 1 | |
| Resolution | 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF | | | |
| | ., ,, | VGA | 1 | |

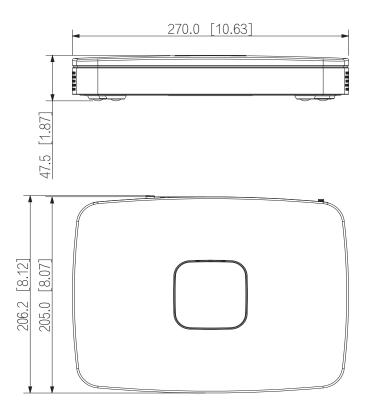


Wiz Sense | DHI-NVR4108-8P-EI

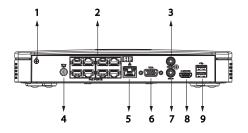
| Network Port | 1 (10/100/1000 Mbps Ethernet port, RJ-45) | | |
|-----------------------|---|--|--|
| PoE Port | 8 ports, 10/100 Mbps, IEEE 802.3 af/at | | |
| General | | | |
| Power Supply | 53 VDC, 1.812 A | | |
| Power Consumption | Total output of NVR is <10 W(without HDD) Total output power of PoE is 72W,the maximum output power of asingle port is 25.5W | | |
| Net Weight | 0.70 kg (1.54 lb) | | |
| Gross Weight | 1.74 kg (3.84 lb) | | |
| Product Dimensions | 270 mm × 206.2 mm × 47.5 mm (10.63" × 8.12" × 1.87") (W × L × H) | | |
| Packaging Dimensions | 427 mm × 96 mm × 262 mm (16.81" × 3.78" × 10.31") (W × L × 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 | | |
| 8 Channels WizSense NVR | DHI-NVR4108- 8P-EI | 8CH Smart 1U 8PoE 1HDD WizSense Network Video Recorder | | |

Dimensions (mm[inch])



Panels



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



