

DHI-NVR608RH-32-AI/ANZ

32 Channels 2U 8HDDs WizMind Network Video Recorder



Wiz Mind

Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, IVSS,NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

Series Overview

As a new generation of network video recorders, NVR600-AI/ANZ series offers high-grade recording technology and has AI capabilities that are ideal for IP video surveillance applications. This enterpriselevel NVR has a powerful processor, built-in deep learning modules, and video metadata technology. It also comes with high-precision human face recognition, perimeter protection and 4K resolution, which together shorten the response time to events and provide critical information that allows surveillance personnel to take immediate action. This NVR is compatible with numerous third-party devices, making it a perfect solution for surveillance systems with or without a video management system.

Functions

Perimeter Protection

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.

Face Recognition

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

- 32-channel 1080p self-adaptive decoding capability.
- Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth.
- Supports N+M cluster.
- Support Raid0/1/5/6/10.
- · Drawer-like chassis design allows for HDD hot swapping.
- AI by recorder: 4-channel face detection and recognition; 8-channel metadata; 24-channel perimeter protection; 32-channel SMD Plus.
- Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, and people counting.



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.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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.



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Technical Specification

| Technical Specification | | Motor Vehicle Attributes |
|--|---|------------------------------------|
| System | | Non-motor Vehicle Attributes |
| Main Processor | Industrial-grade processor | Vehicle License Plate |
| Operating System | Embedded Linux | ANPR by Camera |
| Operating Interface | Web, Local GUI | (Number of Channels) |
| AI | | License Plate Database Capacity |
| AI by Recorder | Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus | Audio and Video |
| Al by Camera | Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; object monitoring | Access Channel |
| Perimeter Protectio | n | Network Bandwidth |
| Perimeter Performance Al by Recorder (Number of Channels) | 24 channels, 10 IVS rules for each channel | Resolution |
| Perimeter Performance of Al by Camera (Number of Channels) | 32 channels | Decoding Capability |
| Face Detection | | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard | Video Output |
| Face Detection Performance of AI by Recorder (Number of Channels) | 4 channels (up to 12 face images/s each channel) | |
| Face Detection Performance of AI by Camera (Number of Channels) | 32 channels | Multi-screen Display |
| Face Recognition | | Third-party Camera Access |
| | Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image. | Compression Standa |
| Face Database Capacity | | Video Compression |
| Face Recognition Performance of AI by Recorder (Number of Channels) | 1. 20 channels FD (by camera) + FR (by recorder), image stream: 20 face images/s 2. 4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s | Audio Compression |
| | | Network |
| Face Recognition Performance of AI by | 32 channels | Network Protocol |
| Camera (Number of Channels) | | Mobile Phone Access |
| SMD Plus | | Interoperability |
| SMD Plus by Recorder | 32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change | Browser |
| SMD Plus by Camera | 32 channels | Network Mode |
| Video Metadata | | Recording Playback |
| Metadata Performance | | |
| of AI by Recorder (Number of Channels) | 8 channels | Record Mode |
| Metadata Performance of Al by Camera (Number of Channels) | 32 channels | Backup Method |
| Human Attributes | Top color, top type, hat, bag, age, gender and umbrella | Playback Mode |
| | | |

plate color, ornament, calling, Vehicle model, vehicle color, number of persons, helmet. te Comparison 32 channels Blocklist and allowlist: 20.000 32 channels Al disabled: 1024 Mbps incoming, 1024 Mbps recording and 800 Mbps outgoing Al enabled: 512 Mbps incoming, 512 Mbps recording and 400 Mbps outgoing 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1 2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 72-channel 720P@30 fps 160-channel D1@30 fps 2-channel VGA, 4-channel HDMI video output. Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1 and HDMI2 is 4K max. resolution of HDMI3 is 8K max. resolution of HDMI4 is1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 max. resolution of VGA1 and VGA2 is 1080p, max. resolution of HDMI1, HDMI2 and HDMI3 is 4K max. resolution of HDMI4 is 1080p Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16/25/36 ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung ard Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG G.711a; G.711u; PCM; G726 HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI iOS; Android ONVIF (Profile S/profile T/Profile G); CGI; SDK Chrome IE 9 or later Firefox Multi-address mode, load balance, fault tolerance and other network port binding modes Up to 16 channels Manual; alarm; motion detection; scheduled Portable hard drive, eSATA disk, burner, USB device and network 1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off

License plate, plate color, vehicle model, vehicle logo,

Motor Vehicle Attributes

Wiz Mind | DHI-NVR608RH-32-AI/ANZ

Storage

| Storage | | |
|---|--|--|
| Disk Group | Yes | |
| RAID | RAID 0/1/5/6/10 | |
| Hot Swapping | Yes | |
| Alarm | | |
| General Alarm | Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm | |
| Anomaly Alarm | Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan | |
| Intelligent Alarm | Face detection; face recognition; perimeter protection (intrusion and tripwire); SMD Plus alarms; ANPR; people counting; stereo analysis; crowd distribution; heat map | |
| Alarm Linkage | Record; snapshot; IPC external alarm output; buzzer; log, preset; email | |
| Port | | |
| Audio Input | 1-channel RCA | |
| Audio Output | 2-channel RCA | |
| Alarm Input | 16 channels | |
| Alarm Output | Output 8 channels | |
| HDD Interface | 8 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature. | |
| eSATA | 1 | |
| RS-232 | 1 | |
| RS-485 | $1 \times A/B$ | |
| USB 4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports) | | |
| HDMI | 4 | |
| VGA | 2 | |
| Network Port | 2 (10/100/1000/2500 Mbps Ethernet port, RJ-45) | |
| General | | |
| Power Supply | 100–240 VAC, 50/60 Hz | |
| Redundant Power | Yes | |
| Power Consumption | <18 W (without HDD) | |
| Net Weight | 8.14 kg (17.95 lb) (without HDD) | |
| Gross Weight | 12.24 kg (26.98 lb) (without HDD) | |
| Product Dimensions | 444.0 mm × 476.0 mm × 95.0 mm (17.48" × 18.74" × 3.74") (W × D × H) | |
| Packaging Dimensions | 571.0 mm × 618.0 mm × 219.0 mm (22.48" × 24.33" × 8.62") (W × D × H) | |
| Operating Temperature | -10 °C to +55 °C (14 °F to +131 °F) | |
| Operating Humidity | 10%-93% (RH) | |
| Installation | Rack or desktop | |
| Certifications | FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2020, Class A; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014+A11:2017 | |
| | | |

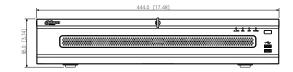
Model Description Type Model Description 32 Channels WizMind NVR DHI-NVR608RH-32-AI/ANZ 32 Channels 2U 8HDDs WizMind Network Video Recorder Accessories ESS1504C 4 HDDs eSATA Storage

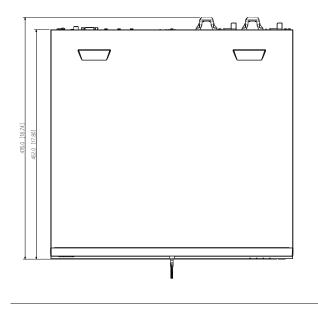
Accessories



ESS1504C 4 HDDs eSATA Storage

Dimensions (mm[inch])







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