

DHI-NVR608RH-128-XI

128 Channels 2U 8HDDs WizMind Network Video Recorder





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-XI series offers high-grade recording technology and has AI capabilities that are ideal for IP video surveillance applications. This enterprise-level 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.
- Al 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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|--|---|--|--------------------------|--|
| Main Processor Industrial good processor Vehicle License Plate Comparison Vehicle License Plate Ve | Technical Specification | | Motor Vehicle Attributes | |
| Operating System Operating Interface Operating Interface Wish I road Gild All All Wish Recorder Face electroic face recognitions wide metabal an immany more vehicles, and non-vehicles, and non | System | | | Vehicle model, vehicle color, number of persons, helmet. |
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| All by Recorder All by Recorder All by Recorder All by Camera | | | ANPR by Camera | 32 channels |
| Ad by Recorder Face districtions taken recognition, video metadata Parman, more vehicles, and non-more vehicles, | Operating Interface | Web, Local GUI | , | 32 Chaineis |
| Autor controversion of motor vehicles, and non-victor vehicles, and non | Al | | | Blocklist and allowlist: 20,000 |
| Aby Camera perimeter Protection Perimeter | Al by Recorder | | Audio and Video | |
| Perimeter Protection Resolution Resoluti | Albu Camara | motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; | Access Channel | 128 channels |
| Perimeter Protection Perimeter Protection Perimeter Performance Aby Recorder (Name) All Amabeles 131 Milps incomings, 512 Milps recording and 400 Milps octopinal by Recorder (Name) All App Recorder (Name) All App Recorder (Name) All Amabeles (10 NS rules for each channel of Channels) All App Recorder (Name) All Amabeles (10 NS rules for each channel of Channels) All Channels (Name) A | Al by Camera | | | and 800 Mbps outgoing Al enabled: 512 Mbps incoming, 512 Mbps recording and |
| Perimeter Performance Ab My Recorder (Number of Channels) Perimeter Performance (Number of Channels) Face Detection Face Attributes Gender, age group; glasses, expressions; face mask; beard face of Ab by Cambra (Number of Channels) Face Detection Face Attributes Gender, age group; glasses, expressions; face mask; beard face of Ab by Cambra (Number of Channels) Face Detection Face Attributes Gender, age group; glasses, expressions; face mask; beard face of Ab by Cambra (Number of Channels) Face Detection Face Recognition 1. To channels (Number of Channels) 1. Third party Cambra (Number of Channels) 1. Third party Cam | Perimeter Protectio | n | Network Bandwidth | |
| Perimeter Performance of Al by Camera (Winther of Channels) Face Detection Face Attributes Gender, age group glasses; expressions; face mask; heard Pace Detection Performance of Al by Camera (Winther of Channels) Face Detection Face | AI by Recorder (Number | 24 channels, 10 IVS rules for each channel | Resolution | 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; |
| Face Detection Face Attributes Gender; age group; glasses; expressions; face mask; beard Face Detection Performance of Al by Recorder (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels) Face Recognition Performance of Al by Recorder Wilde Compression Face Recognition Performance of Al by Recorder Wilde Compression Face Recognition Performance of Al by Recorder Wilde Compression Face Recognition Performance of Al by Recorder Wilde Compression Face Recognition Performance | Perimeter Performance of AI by Camera | 64 channels | Decoding Capability | 4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; |
| Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Jup to 40 face databases with 300,000 images, with a dreadata Performance of Al by Secorder (Number of Channels) Face Recognition Face Recognition Performance of Al by Camera (Number of Channels) And the secorder (Number of Channels) Jup to 40 face databases with 300,000 images, with a dreadata Performance of Al by Secorder (Number of Channels) Face Recognition F | | | | 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 |
| Face Detection Performance of Al by Recorder (Number of Channels) Face Detection Performance of Al by Recorder (Number of Channels) Face Recognition Face Rec | | Gender: age group: glasses: expressions: face mask; heard | | |
| Face Detection Performance of Al by Camera (Number of Channels) Face Recognition Face Recognition Up to 40 face databases with 300,000 images, with a foal capacity of 48 G. Name, gender, birthday, address, credential type, credential type, content and to accept to each face images. Face Database Capacity Face Recognition Performance of Al by Recorder (Number of Channels) SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Recorder SMD Plus by Camera Gate Recognition changes Face Recognition Recording Playback SMD Plus by Camera Face Recognition SMD Plus by Recorder SMD Plus by Camera Face Recognition SMD Plus by Recorder Channels SMD Plus by Camera Face Recognition SMD Plus by Recorder Channels SMD Plus by Recorder Channels SMD Plus by Camera Face Recognition | Face Detection Performance of AI by Recorder (Number of | | Video Output | |
| Multi-screen Display | Face Detection | | | max. resolution of HDMI1, HDMI2 and HDMI3 is 4K max. resolution of HDMI4 is 1080p |
| Face Recognition Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Name, gender, birthday, address, credential type, credential type | Camera (Number of | 64 channels | | |
| Face Database Capacity for dential type, credential type | Face Recognition | | | ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung |
| Face Patabase Capacity credential type, | | | Compression Standard | |
| Face Recognition Performance of Al by Recorder (Number of Channels) Face Recognition Performance of Al by Recorder (Number of Channels) SMD Plus SMD Plus by Recorder SMD Plus by Camera SMD Plus by Camera Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Performance Metadata Performance of Al by Camera (Number of Channels) Performance Metadata Performance of Al by Recorder (Number of Channels) Performance Metadata Performance of Al by Recorder (Number of Channels) Performance Multi-channel Playback Multi-channel Playba | Face Database Capacity | credential type, credential No., countries & regions and state can be added | Video Compression | |
| Performance of AI by Recorder (Number of Channels) Face Recognition Performance of AI by Camera (Number of Channels) SMD Plus 32-channels Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera SMD Plus by Camera Wideo Metadata Metadata Performance of AI by Recorder (Number of Channels) Metwork Protocol Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol Network Protocol Negistration; ISCSI Mobile Phone Access IOS; Android Interoperability ONVIF (Profile S/profile T/Profile G); CGI; SDK Chrome IE 9 or later Firefox Network Mode Multi-address mode, load balance, fault tolerance and other network port binding modes Recording Playback Multi-channel Playback Multi-channels Metadata Performance of AI by Recorder (Number of Channels) Metadata Performance of AI by Camera (Number of Channels) Metadata Performance of AI by Camera (Number of Channels) Top color, top type, hat, bag, age, gender and umbrella Network Mode Playback Mode Playback Mode Playback Mode Playback Mode Playback Mode Playback Mode Network Network Protocol Network P | Face Recognition | | Audio Compression | G.711a; G.711u; PCM; G726 |
| Channels Stream: 12 face images/s Network Protocol SMTP; UPIP; DDNS; Narm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI Mobile Phone Access iOS; Android Interoperability ONVIF (Profile S/profile T/Profile G); CGI; SDK | Performance of AI by | stream: 20 face images/s | Network | |
| Camera (Number of Channels) SMD Plus SMD Plus by Recorder SMD Plus by Camera 64 channels Absolute the content of the content of the content of the content of Al by Recorder (Number of Channels) Mobile Phone Access Interoperability ONVIF (Profile S/profile T/Profile G); CGI; SDK Chrome Browser Browser Browser Browser Browser Browser Absolute the content of the con | Channels) Face Recognition | | Network Protocol | SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto |
| SMD Plus by Recorder SMD Plus by Camera Video Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Human Attributes Top color, top type, hat, bag, age, gender and umbrella Interoperability 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 Multi-channel Playback Wulti-channel Playback Record Mode Manual; alarm; motion detection; scheduled Playback Mode 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 | Camera (Number of | 64 channels | Mobile Phone Access | iOS; Android |
| SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change SMD Plus by Camera 64 channels Video Metadata Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Channels) Metadata Performance of Al by Camera (Number of Channels) Portable hard drive, eSATA disk, burner, USB device and network (Number of Channels) Playback Mode Playback Mode Playback Mode Playback Mode 2. Full screen, backup (cut/file), partially enlarge, audio | | | Interoperability | ONVIF (Profile S/profile T/Profile G); CGI; SDK |
| Network Mode Network Mode Multi-address mode, load balance, fault tolerance and other network port binding modes Recording Playback Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Top color, top type, hat, bag, age, gender and umbrella Network Mode Multi-address mode, load balance, fault tolerance and other network port binding modes Multi-channel Playback Multi-channel Playback 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 | | vehicle, reducing false alarms caused by leaves, rain and | Browser | IE 9 or later |
| Video Metadata Metadata Performance of Al by Recorder (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Top color, top type, hat, bag, age, gender and umbrella Recording Playback Multi-channel Playback Metadata Playback 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 | CMD DI LL C | | Network Mode | |
| Metadata Performance of AI by Recorder (Number of Channels) Metadata Performance of AI by Recorder (Number of Channels) Metadata Performance of AI by Camera (Number of Channels) Metadata Performance of AI by Camera (Number of Channels) Top color, top type, hat, bag, age, gender and umbrella Multi-channel Playback Record Mode 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 | · | 64 Channels | Recording Playback | , , |
| of Al by Recorder (Number of Channels) Metadata Performance of Al by Camera (Number of Channels) Al channels Solution and the second Mode Record Mode Backup Method 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 | | | | Un to 16 channels |
| Metadata Performance of Al by Camera (Number of Channels) Backup Method 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 | of AI by Recorder | 8 channels | · | |
| of Al by Camera (Number of Channels) Human Attributes 1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio | , | | | |
| Human Attributes Top color, top type, hat, bag, age, gender and umbrella Playback Mode 2. Full screen, backup (cut/file), partially enlarge, audio | of AI by Camera | 32 channels | Backup Method | network 1. Play, pause, stop, fast forward, fast backward, rewind, |
| | Human Attributes | Top color, top type, hat, bag, age, gender and umbrella | Playback Mode | 2. Full screen, backup (cut/file), partially enlarge, audio |



| 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 | 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 × 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 \times 476.0 mm x 95.0 mm (17.48" \times 18.74" \times 3.74") (W \times D \times 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 | | |

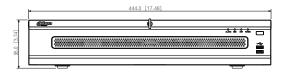
| Ordering Information | | | | |
|-----------------------------|-------------------------|---|--|--|
| Туре | Model | Description | | |
| 128 Channels WizMind NVR | DHI-NVR608RH- 128-XI | 128 Channels 2U 8HDDs WizMind Network Video Recorder | | |
| Accessories | FSS1504C | 4 HDDs eSATA Storage | | |

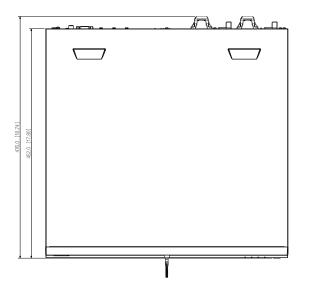
Accessories



ESS1504C 4 HDDs eSATA Storage

Dimensions (mm[inch])

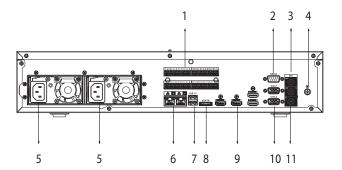








Panels



- Alarm In/Out 1
- RS-232 Port 2

6

8

- AUDIO OUT, RCA Connector 3
- 4 Ground
- 5 Power Input
- **Network Ports**
- USB Ports 7
- eSATA Port
- 9 **HDMI** Ports
- VGA Ports 10
- 11 AUDIO IN, RCA Connector

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