

# DHI-NVR608RH-32-XI

32CH 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 Al 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**

#### AcuPick

This industry-leading search technology effectively utilizes both frontend and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

#### **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.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 32 × 1080p@30 fps.
- Max. 1280/1280/1024 Mbps incoming/recording/outgoing bandwidth.
- Supports AcuPick with up to 32 channels.
- Al by Recorder supports 8-channel face detection and recognition, up to 40 face databases and 300,000 face images; 8-channel metadata; 32-channel perimeter protection; 32-channel SMD Plus.
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- Supports redundant power, N+M cluster, Raid 0/1/5/6/10, ISCSI, Drawer-like chassis design allows for HDD hot swapping.
- Supports EPTZ, One-click Arming & Disarming.
- Security baseline 2.3.



#### **Face Recognition**

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

#### 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.



# **Technical Specification**

#### System

System				
Main Processor	Industrial-grade processor			
Operating System	Embedded Linux			
Operating Interface	Web, Local GUI			
AI				
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus			
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			
AcuPick AI by Camera + Recorder	Max. 32-channel, 1 combined event per channel/s			
Perimeter Protection				
Perimeter Performance Al by Recorder (Number of Channels)	Simultaneous mode: 32 channels, 10 IVS rules for each channel Heterogeneous mode: 24 channels, 10 IVS rules for each channel			
Perimeter Performance of AI by Camera (Number of Channels)	32 channels			
Face Detection				
Face Attributes	Gender; age group; glasses; expressions; face mask; beard			
Face Detection Performance of AI by Recorder (Number of Channels)	Simultaneous mode: 8 channels (up to 12 face images/s each channel) Heterogeneous mode: 5 channels (up to 12 face images/s each channel)			
Face Detection Performance of AI by Camera (Number of Channels)	32 channels			
Face Recognition				
Face Database Capacity	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.			
Face Recognition Performance of AI by Recorder (Number of Channels)	Simultaneous mode: 32-channel FD (by camera) + FR (by recorder),image stream: 32 face images/s; 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s Heterogeneous mode: 16-channel FD (by camera) + FR (by recorder),image stream: 16 face images/s; 5-channel FD (by recorder) + FR (by recorder), video stream: 10 face images/s			
Face Recognition Performance of AI by Camera (Number of Channels)	32 channels			
SMD Plus				
SMD Plus by Recorder	32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change			
SMD Plus by Camera	32 channels			

### Video Metadata

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Metadata Performance of AI by Recorder (Number of Channels)	8 channels		
Metadata Performance of Al by Camera (Number of Channels)	32 channels		
People Attributes	9 human body attributes		
Human Attributes	Top color, top type, hat, bag, age, gender and umbrella		
Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling,		
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.		
Vehicle License Plate	Comparison		
ANPR by Camera (Number of Channels)	32 channels		
License Plate Database Capacity	Blocklist and allowlist: 20,000		
Audio and Video			
Access Channel	32 channels		
Network Bandwidth	AI disabled: 1280 Mbps incoming, 1280 Mbps recording and 1024 Mbps outgoing AI enabled: 640 Mbps incoming, 640 Mbps recording and 512 Mbps outgoing		
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1		
Decoding Capability	Al disabled: 2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 32-channel D1@30 fps Al enabled: 1- channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 2- channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4- channel 8 MP@30 fps; 6-channel 5 MP@30 fps; 8- channel 4 MP@30 fps; 16-channel 1080p@30 fps; 32- channel D1@30 fps		
Video Output	2 VGA, 4 HDMI; VGA: 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI1&2: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI3: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI4: 1920 × 1080, 1280 × 1024, 1280 × 720 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 is 1080p 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		
Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16/25/36		
Third-party Camera Access	ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung		
Compression Standard			
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG		
Audio Compression	G.711a; G.711u; PCM; G726		

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#### Wiz Mind DHI-NVR608RH-32-XI

VGA

Network Port

2

2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)

Network				
Network Protocol	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			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK			
Browser	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	Up to 16 channels			
Record Mode	Manual; alarm; motion detection; scheduled			
Backup Method	Portable hard drive, eSATA disk, burner, USB device and network			
Playback Mode	1. Play, pause, stop, fast forward, fast backward, rewind, play by frame 2. Full screen, backup (cut/file), partially enlarge, audio on/off			
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			

#### 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) 444.0 mm × 476.0 mm x 95.0 mm (17.48" × 18.74" × Product Dimensions 3.74") (W × D × H) 571.0 mm **x** 618.0 mm **x** 219.0 mm (22.48" **x** 24.33" **x** Packaging Dimensions 8.62")(W × D × H) **Operating Temperature** -10 °C to +55 °C (14 °F to +131 °F) 0 °C to +40 °C (+32 °F to +104 °F) Storage Temperature **Operating Humidity** 10%-93% (RH), non-condensing Installation Rack or desktop FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2020, Class A; EN IEC 61000-3-2:2019; EN 61000-Certifications 3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN

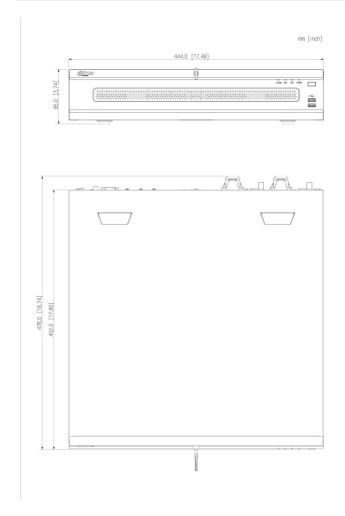
#### **Ordering Information**

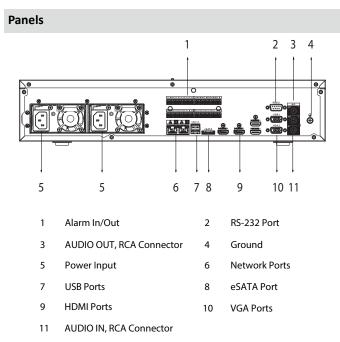
Туре	Model	Description
Al Network Video Recorder	DHI-NVR608RH-32-XI	32CH 2U 8HDDs WizMind Network Video Recorder

62368-1:2014+A11:2017



## Dimensions (mm[inch])





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