



# DHI-NVR608H-64-XI

64CH 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 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 x 1080p@30 fps.
- Max. 1280/1280/1024 Mbps incoming/recording/outgoing bandwidth.
- Supports AcuPick with up to 64 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 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.

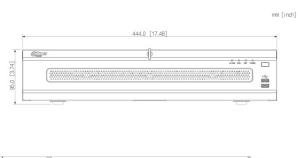
Technical Specification	on		Video Metadata	
System  Main Processor	Industrial and account		Metadata Performance of Al by Recorder (Number of Channels)	8 channels
Operating System	Industrial-grade processor  Embedded Linux		Metadata Performance of	64 channels
Operating Interface	Web, Local GUI		AI by Camera (Number of Channels)	
Al			People Attributes	9 human body attributes
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus		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,
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		Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.
AcuPick AI by Camera +	CuPick Al by Camera +		Vehicle License Plate	Comparison
Recorder	Max. 64-channel, 1 combined event per channel/s		ANPR by Camera (Number of Channels)	64 channels
Perimeter Protection  Perimeter Performance AI	Simultaneous mode: 32 channels, 10 IVS rules for each		License Plate Database Capacity	Blocklist and allowlist: 20,000
by Recorder (Number of Channels)	channel Heterogeneous mode: 24 channels, 10 IVS rules for each channel		Audio and Video	
Perimeter Performance of			Access Channel	64 channels
Al by Camera (Number of Channels)	64 channels		Network Bandwidth	Al disabled: 1280 Mbps incoming, 1280 Mbps recording and 1024 Mbps outgoing Al enabled: 640 Mbps incoming, 640 Mbps recording and 512 Mbps outgoing
Face Detection	Gender; age group; glasses; expressions; face mask;		Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP;
Face Attributes	beard		Resolution	1080p; 720p; D1
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)		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; 64-channel D1@30 fps
Face Detection Performance of AI by Camera (Number of Channels)	64 channels			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; 64-channel D1@30 fps
Face Recognition				2 VGA, 4 HDMI; VGA: 1920 <b>x</b> 1080, 1280 <b>x</b> 1024, 1280 <b>x</b> 720; HDMI1&2: 3840 <b>x</b> 2160, 1920 <b>x</b> 1080, 1280 <b>x</b>
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.			1024, 1280 × 720; HDMI3: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI4: 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
Face Recognition Performance of Al 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		Video Output	
Face Recognition Performance of AI by Camera (Number of Channels)	64 channels		Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64 Sub screen: 1/4/8/9/16/25/36
			Third-party Camera Access	ONVIF; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung
SMD Plus		Compression Standard		
SMD Plus by Recorder	32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG
CMD Divis has Compared	lighting condition change		Audio Compression	G.711a; G.711u; PCM; G726
SMD Plus by Camera	64 channels			

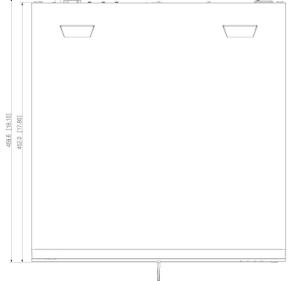
Network					
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI				
Mobile Phone Access	iOS; Android				
Interoperability	ONVIF (Profile S/profile T/Profile 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				
VGA	2				
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)				

100–240 VAC, 50/60 Hz		
<18 W (without HDD)		
6.40 kg (14.11 lb) (without HDD)		
10.35 kg (22.82 lb) (without HDD)		
444.0 mm <b>x</b> 456.6 mm x 95.0 mm (17.48" <b>x</b> 17.98" <b>x</b> 3.74") (W <b>x</b> D <b>x</b> H)		
570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90")(W × D × H)		
-10 °C to +55 °C (14 °F to +131 °F)		
0 °C to +40 °C (+32 °F to +104 °F)		
10%–93% (RH), non-condensing		
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 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014+A11:2017		

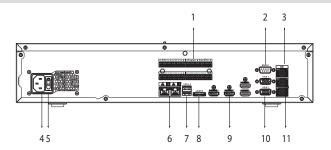
Ordering Information					
Туре	Model	Description			
Al Network Video Recorder	DHI-NVR608H-64-XI	64CH 2U 8HDDs WizMind Network Video Recorder			

## Dimensions (mm[inch])





## **Panels**



- 1 Alarm In/Out
- 2 RS-232 Port
- 3 AUDIO OUT, RCA Connector
- Power Input
- 5 Power Switch
- Network Ports
- 7 USB Ports
- 8 eSATA Port10 VGA Ports
- 9 HDMI Ports
- 1 AUDIO IN, RCA Connector