

# NVR608RH-32-XI

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-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.
- 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 Specificatio

Technical Specification		Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling,	
System		Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	
Main Processor	Industrial-grade processor	Vehicle License Plat	e Comparison	
Operating System	Embedded Linux	ANPR by Camera		
Operating Interface	Web, Local GUI	(Number of Channels)	32 channels	
Al		License Plate Database Capacity	Blocklist and allowlist: 20,000	
AI by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus	Audio and Video		
AI 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	32 channels	
			Al disabled: 1024 Mbps incoming, 1024 Mbps recording and 800 Mbps outgoing	
Perimeter Protection		Network Bandwidth	Al enabled: 512 Mbps incoming, 512 Mbps recording and 400 Mbps outgoing	
Perimeter Performance AI by Recorder (Number of Channels)	24 channels, 10 IVS rules for each channel	Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1	
Perimeter Performance of AI by Camera (Number of Channels)	32 channels	Decoding Capability	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	
Face Detection			2-channel VGA, 4-channel HDMI video output. Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p,	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard		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	
Face Detection Performance of AI by Recorder (Number of Channels)	4 channels (up to 12 face images/s each channel)	Video Output max. res Heterog Simultai Simultai max. res		
Face Detection Performance of AI by Camera (Number of	32 channels	Multi-screen Display	max. resolution of HDMI4 is 1080p Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16/25/36	
Channels)		Third-party Camera		
Face Recognition		Access	ONVIF; Sony; Axis; Arecont; Pelco; Canon; Samsung	
	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 Stand	Compression Standard	
Face Database Capacity		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG	
Face Decompition		Audio Compression	G.711a; G.711u; PCM; G726	
Face Recognition Performance of AI by Recorder (Number of	<ol> <li>20 channels FD (by camera) + FR (by recorder), image stream: 20 face images/s</li> <li>4 channels FD (by recorder) + FR (by recorder), video</li> </ol>	Network		
Channels) Face Recognition Performance of Al by	stream: 12 face images/s	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	
Camera (Number of Channels)	32 channels	Mobile Phone Access	iOS; Android	
SMD Plus		Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK	
SMD Plus by Recorder	32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and	Browser	Chrome IE 9 or later Firefox	
	lighting condition change	Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes	
SMD Plus by Camera	32 channels	Recording Playback		
Video Metadata				
Metadata Performance of AI by Recorder (Number of Channels)	8 channels	Multi-channel Playback Record Mode	Up to 16 channels Manual; alarm; motion detection; scheduled	
Metadata Performance	22 shaarda	Backup Method	Portable hard drive, eSATA disk, burner, USB device and network	
of Al by Camera (Number of Channels) Human Attributes	32 channels Top color, top type, hat, bag, age, gender and umbrella	Playback Mode	<ol> <li>Play, pause, stop, fast forward, fast backward, rewind, play by frame</li> <li>Full screen, backup (cut/file), partially enlarge, audio on/off</li> </ol>	

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#### 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	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 $\times$ 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
32 Channels WizMind NVR	DHI-NVR608RH- 32-XI	32 Channels 2U 8HDDs WizMind Network Video Recorder
Accessories	ESS1504C	4 HDDs eSATA Storage

#### Accessories



ESS1504C 4 HDDs eSATA Storage

### Dimensions (mm[inch])



