



DHI-NVR608RH-128-XI

128CH 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 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.

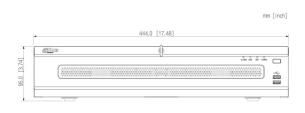
Technical Specification			Video Metadata		
System			Metadata Performance of AI by Recorder (Number of	8 channels	
Main Processor	Industrial-grade processor		Channels)	o channels	
Operating System	Embedded Linux		Metadata Performance of Al by Camera (Number of Channels)	64 channels	
Operating Interface	Web, Local GUI				
AI			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 +	Max. 64-channel, 1 combined event per channel/s		Vehicle License Plate Comparison		
Recorder			ANPR by Camera (Number of Channels)	64 channels	
Perimeter Protection			License Plate Database	Blocklist and allowlist: 20,000	
Perimeter Performance AI 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		Capacity Audio and Video		
Perimeter Performance of			Access Channel	128 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 Face Attributes	Gender; age group; glasses; expressions; face mask; beard		Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 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; 128-channel D1@30 fps Al enabled: 1-	
Face Detection Performance of AI by Camera (Number of Channels)	64 channels	Deceding copusmity		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; 80-channel D1@30 fps	
Face Recognition			2 VGA, 4 HDMI; VGA: 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI182: 3840 × 2160, 1920 × 1080, 1280 ×		
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.	Video Output	720; HDM18.2: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDM13: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDM14: 1920 × 1080, 1280 × 1024, 1280 × 720 Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDM11 and HDM12 is 4K; max. resolution of HDM13 is 8K; max. resolution of HDM14 is 1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDM11, simultaneous video source output for VGA2 and HDM12. Max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDM11, HDM12 and HDM13 is 4K; max. resolution of HDM14 is 1080p		
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	νιαεό σατρατ			
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	
CMAD Divis by Come	lighting condition change		Audio Compression	G.711a; G.711u; PCM; G726	
SMD Plus by Camera	64 channels				

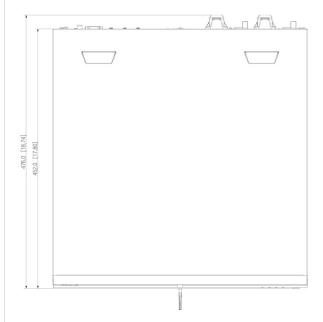
Network						
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI					
Mobile Phone Access	iOS; Android					
Interoperability	ONVIF (Profile S/profile T/Profile 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)					

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 x 476.0 mm x 95.0 mm (17.48" x 18.74" x 3.74") (W x D x H)		
Packaging Dimensions	571.0 mm x 618.0 mm x 219.0 mm (22.48" x 24.33" x 8.62")(W x D x H)		
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)		
Storage Temperature	0 °C to +40 °C (+32 °F to +104 °F)		
Operating Humidity	10%–93% (RH), non-condensing		
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		

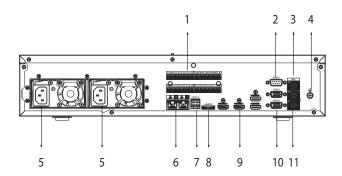
Ordering Information						
Туре	Model	Description				
Al Network Video Recorder	DHI-NVR608RH-128-XI	128CH 2U 8HDDs WizMind Network Video Recorder				

Dimensions (mm[inch])





Panels



- Alarm In/Out
- 3 AUDIO OUT, RCA Connector
- 5 Power Input
- USB Ports
- **HDMI** Ports
- 2 RS-232 Port
- 4 ${\sf Ground}$
- Network Ports 6
- 8 eSATA Port

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VGA Ports

AUDIO IN, RCA Connector