



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.

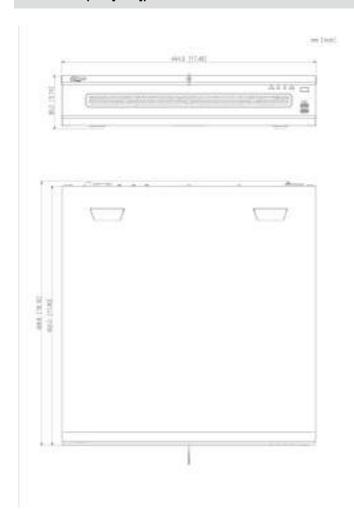
Technical Specification	on	Video Metadata		
System	Chan		8 channels	
Main Processor	Embedded Linux	Metadata Performance of		
Operating System Operating Interface	Web, Local GUI	Al by Camera (Number of Channels)	64 channels	
Al	nes, escar es.	People Attributes	9 human body attributes	
Al	Face detection; face recognition; video metadata	Human Attributes	Top color, top type, hat, bag, age, gender and umbrella	
Al by Recorder	(human, motor vehicles, and non-motor vehicles); SMD Plus	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 +		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	channel	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			32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP;	
Face Attributes	Gender; age group; glasses; expressions; face mask; 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	Jessen g espasin,	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 x 1080, 1280 x 1024, 1280 x 720; HDMI1&2: 3840 x 2160, 1920 x 1080, 1280 x	
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; HDMl3: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMl4: 1920 × 1080, 1280 × 1024, 1280 × 720; HDMl4: 1920 × 1080, 1280 × 1024, 1280 × 720 Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDMl1 and HDMl2 is 4K;	
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	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 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	
	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)				

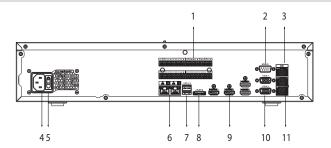
General		
Power Supply	100–240 VAC, 50/60 Hz	
Power Consumption	<18 W (without HDD)	
Net Weight	6.40 kg (14.11 lb) (without HDD)	
Gross Weight	10.35 kg (22.82 lb) (without HDD)	
Product Dimensions	444.0 mm x 456.6 mm x 95.0 mm (17.48" x 17.98" x 3.74") (W x D x H)	
Packaging Dimensions	570.0 mm x 570.0 mm x 226.0 mm (22.44" x 22.44" x 8.90")(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-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
- 6 Network Ports

VGA Ports

- 7 USB Ports
- 8 eSATA Port
- 9 HDMI Ports
- 11 AUDIO IN, RCA Connector