

DHI-NVR5864RH-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 AI solutions for verticals.

Series Overview

As a new generation of network video recorders, the NVR5000-XI series offers advanced recording technology and has AI capabilities that make it ideal for IP video surveillance. It has a powerful processor, strong decoding capabilities and offers high incoming and outgoing bandwidth, allowing it to produce unimpeded streams and access videos as high as 32 MP. Through its deep learning modules and video metadata technology, it offers high-precision human face recognition, video metadata, perimeter protection and SMD plus technology. Together, these functions shorten the response time to events and provide critical information for surveillance personnel. AcuPick is an industry-leading, highly accurate search technology. When the NVR is put together with IP cameras that are compatible with AcuPick, it uses the features of the target to search for videos where the target appears. The NVR is compatible with many third-party devices, making it a great surveillance solution.

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. 512/512/512 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- · Supports AcuPick with up to 36 channels.
- Al by Recorder supports 8-channel face detection and recognition, up to 20 face databases and 200,000 face images; 8-channel metadata; 24-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, RAID 0/1/5/6/10, N+M cluster, and iSCSI, and has a drawer-like chassis design that allows HDD hot swapping.
- · Supports EPTZ, and one-click arming and disarming.























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.

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.

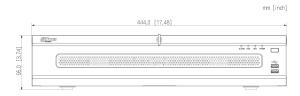
Technical Specification	n	SMD Plus by Camera	All channels (64 targets/s)	
System		Video Metadata		
Main Processor	Industrial-grade processor	Metadata Performance of		
Operating System	Embedded Linux	Al by Recorder (Number of Channels)	8 channels, 23 attributes e	
Operating Interface	Web, Local GUI	Metadata Performance of		
Al		Al by Camera (Number of Channels)	32 channels	
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD	People Attributes	9 human body attributes	
		Motor Vehicle Attributes	9 attributes	
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD; stereo analysis, crowd distribution; people counting; ANPR; heat map; PPE detection	Non-motor Vehicle Attributes	4 attributes	
		Vehicle License Plate	Vehicle License Plate Comparison	
AcuPick AI by Camera + Recorder	Max. 36-channel, 1 combined event per channel	ANPR by Camera (Number of Channels)	All channels (32 targets/	
Perimeter Protection		License Plate Database Capacity	1. Create up to 20,000 p 2. Blocklist and allowlist	
Perimeter Performance Al by Recorder (Number of Channels)	24 channels, 10 IVS rules for each channel	Audio and Video		
	,	Access Channel	64 channels	
Perimeter Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)	Network Bandwidth	Al disabled: 512 Mbps in and 512 Mbps outgoing Al enabled: 200 Mbps in and 200 Mbps outgoing	
Face Detection			32 MP; 24 MP; 16 MP; 1	
Face Attributes	6 attributes	Resolution	3 MP; 1080p; 960p; 720	
Face Detection Performance of Al by Recorder (Number of Channels)	Sub screen 4K enabled: 4 channels (up to 12 face images/s each channel) Sub screen 4K disabled: 8 channels (up to 12 face images/s each channel)		Al disabled: 2-channel 3: MP@30 fps; 4-channel 3 MP@30 fps; 8-channel 8 MP@30 fps; 12-channel MP@30 fps; 32-channel	
Face Detection Performance of AI by Camera (Number of Channels)	32 channels	Decoding Capability	720p@30 fps Al enabled: 1-channel 32 MP@30 fps; 1-cha MP@30 fps; 2-channel 16 MP@30 fps; 4-ch MP@30 fps; 6-channel 8 MP@30 fps; 8-cha MP@30 fps; 8-channel 5 MP@30 fps; 12-ch	
Face Recognition			MP@30 fps; 24-channel 720p@30 fps; 64-chann	
Face Database Capacity	Up to 20 face databases with 200,000 images, with a total capacity of 44 G. Sub screen 4K enabled:		2 VGA, 2 HDMI VGA:1920 × 1080, 1280 HDMI:3840 × 2160, 1920	
Face Recognition Performance of AI by Recorder (Number of Channels)	16-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s 4-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s Sub screen 4K disabled: 16-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s 8-channel FD (by recorder) + FR (by recorder), video	Video Output	Heterogeneous video sou HDMI2 Simultaneous video sour Simultaneous video sour	
		Multi-screen Display	Main screen: 1/4/8/9/16 Sub screen: 1/4/8/9/16	
Face Recognition	stream: 16 face images/s	Third-party Camera Access	ONVIF; Panasonic; Sony; Hanwha	
Performance of AI by Camera (Number of	32 channels	Compression Standar	Compression Standard	
Channels)		Video Compression	Smart H.265+; H.265; Sm	
SMD Plus		Audio Compression	G.711a; G.711u; PCM; G7	
SMD Plus by Recorder	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change			

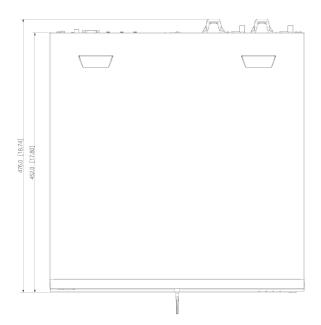
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.); ISCSI			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 23.06(Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome; IE; Safari; Edge; Firefox			
Network Mode	Multi-address; load balance; fault tolerance			
Recording Playback				
Multi-channel Playback	Up to 16 channels			
Record Mode	General; motion detection; intelligent; alarm; POS			
Backup Method	USB device and network			
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback			
Storage				
Disk Group	Yes			
RAID	RAID 0/1/5/6/10			
Hot Swapping	Yes			
Alarm				
General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; thermal alarm			
Anomaly Alarm	Error (no disk, disk error, low space, RAID exception, low quota space; abnormal disk health; network disconnection; IP conflict; MAC conflict; abnormal fan speed); video loss; video tampering; camera offline; audio detection			
Intelligent Alarm	Face detection; face recognition; video metadata (human, motor vehicle, and non-motor vehicle); perimeter protection; license plate comparison			
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email			
Port				
Audio Input	1-channel RCA			
Audio Output	2-channel RCA			
Alarm Input	16 channels			
Alarm Output	8 channels (1-channel 12 V 1 A output)			
Disk Interface	8 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.			
eSATA	1			
RS-232	1			
RS-485	2 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)			
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)			
HDMI	2			
VGA	2			

Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)	
General		
Power Supply	100–240 VAC, 50/60 Hz	
Redundant Power	Yes	
Power Consumption	<13 W (without HDD)	
Net Weight	8.79 kg (19.38 lb)	
Gross Weight	11.82 kg (26.06 lb)	
Product Dimensions	444.0 mm × 476.0 mm ×95.0 mm(17.48" × 18.74" × 3.74") (W × D × H)	
Packaging Dimensions	618.0 mm × 571.0 mm × 219.0 mm (24.33" × 22.48" × 8.62")(W × D × H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage Temperature	−20 °C to +60 °C (−4 °F to +140 °F)	
Operating Humidity	10%–93% (RH), non-condensing	
Installation	Rack or desktop	
Certifications	Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE- LVD: EN 62368-1:2014	

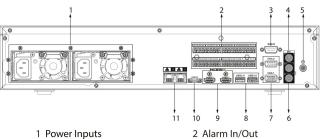
Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR5864RH-XI	64CH 2U 8HDDs WizMind Network Video Recorder			

Dimensions (mm[inch])





Panels



- 1 Power Inputs
- 3 RS-232 Port
- 5 Ground
- 7 VGA Ports
- 9 HDMI Ports 11Network Ports
- 4 MIC OUT, RCA Connector
 - 6 MIC IN, RCA Connector
 - 8 USB Ports
 - 10 eSATA Port

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