

DHI-NVR5864-XI

64CH 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, 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 × 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.
- AI 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.
- AI 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.
- · 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.

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Technical Specification

recifical specification		SIVID Flus by Califera	All charmers (04 targets/s)	
System		Video Metadata		
Main Processor	Industrial-grade processor	Metadata Performance of		
Operating System	Embedded Linux	AI by Recorder (Number of Channels)	8 channels, 23 attributes extraction.	
Operating Interface	Web, Local GUI	Metadata Performance of		
AI		AI by Camera (Number of Channels)	32 channels	
AI 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	Comparison	
AcuPick AI by Camera + Recorder	Max. 36-channel, 1 combined event per channel	ANPR by Camera (Number of Channels)	All channels (32 targets/s)	
Perimeter Protection		License Plate Database Capacity	 Create up to 20,000 plate numbers Blocklist and allowlist 	
Perimeter Performance AI by Recorder (Number of	24 channels, 10 IVS rules for each channel	Audio and Video		
Channels)		Access Channel	64 channels	
Perimeter Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)	Network Bandwidth	AI disabled: 512 Mbps incoming, 512 and 512 Mbps outgoing AI enabled: 200 Mbps incoming, 200 and 200 Mbps outgoing	
Face Detection			32 MP; 24 MP; 16 MP; 12 MP; 8 MP;	
Face Attributes	6 attributes	Resolution	3 MP; 1080p; 960p; 720p; D1; CIF; QC	
Face Detection Performance of AI 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 32 MP@30fps; MP@30 fps; 4-channel 16 MP@30 fp MP@30 fps; 8-channel 8 MP@30 fps; MP@30 fps; 12-channel 5 MP@30 fp MP@30 fps; 32-channel 1080p@30 fp 720p@30 fps Al enabled: 1-channel 32 MP@30 fps; MP@30 fps; 2-channel 16 MP@30 fps; MP@30 fps; 8-channel 8 MP@30 fps; MP@30 fps; 24-channel 1080p@30 fp 720p@30 fps; 64-channel 10@30 fps	
Face Detection Performance of AI by Camera (Number of Channels)	32 channels	Decoding Capability		
Face Recognition				
Face Database Capacity	Up to 20 face databases with 2,000,00 images, with a total capacity of 44 G.		2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280	
Face Recognition Performance of AI by Recorder (Number of Channels)	Sub screen 4K enabled: 32-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: 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	Video Output	HDMI:3840 × 2160, 1920 × 1080, 128 720 Heterogeneous video source output f HDMI2 Simultaneous video source output for Simultaneous video source output for	
		Multi-screen Display	Main screen: 1/4/8/9/16/25/36/64 Sub screen: 1/4/8/9/16	
Face Recognition	stream: 16 face images/s 32 channels	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont Hanwha	
Performance of AI by Camera (Number of		Compression Standard		
Channels)		Video Compression	Smart H.265+; H.265; Smart H.264+; I	
SMD Plus		Audio Compression	G.711a; G.711u; PCM; G726	
SMD Plus by Recorder	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change			

9 human body attributes 9 attributes 4 attributes omparison All channels (32 targets/s) 1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist 64 channels AI disabled: 512 Mbps incoming, 512 Mbps recording and 512 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing 32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF AI disabled: 2-channel 32 MP@30fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 10-channel 6 MP@30 fps; 12-channel 5 MP@30 fps;16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 64-channel 720p@30 fps AI enabled: 1-channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps; 48-channel 720p@30 fps; 64-channel D1@30 fps 2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 Main screen: 1/4/8/9/16/25/36/64 Sub screen: 1/4/8/9/16 ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha Smart H.265+; H.265; Smart H.264+; H.264; MJPEG G.711a; G.711u; PCM; G726

All channels (64 targets/s)

SMD Plus by Camera

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Network

Network Port

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; Firefox; IE				
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				
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				

2 (10/100/1000 Mbps Ethernet port, RJ-45)

General

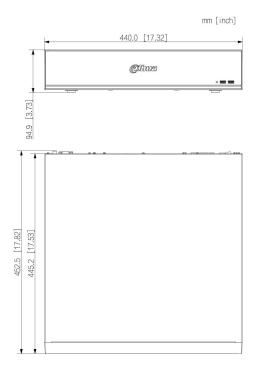
Power Supply	100–240 VAC, 50-60 Hz
Power Consumption	<13 W (without HDD)
Net Weight	6.46 kg (14.24 lb)
Gross Weight	8.91 kg (19.64 lb)
Product Dimensions	440.0 mm × 452.5 mm x 94.9 mm (17.32" × 17.81" × 3.74") (W ×D × H)
Packaging Dimensions	570.0 mm × 570.0 mm x 226.0 mm (22.44" × 22.44" × 8.90") (W ×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

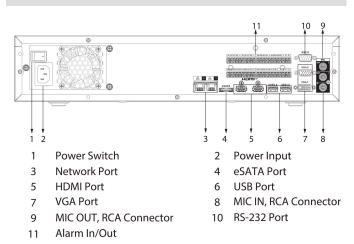
Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR5864-XI	64CH 2U 8HDDs WizMind Network Video Recorder

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Dimensions (mm[inch])



Panels



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