

# DHI-NVR5832RH-XI

32CH 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 32 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.
- 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.

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## **Technical Specification**

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System		Vide
Main Processor	Industrial-grade processor	Metad
Operating System	Embedded Linux	Al by I Chanr
Operating Interface	Web, Local GUI	Metad
AI		Al by ( Chann
AI by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD	People
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-n Attrib Vehi
AcuPick AI by Camera + Recorder	Max. 32-channel, 1 combined event per channel	ANPR of Cha
Perimeter Protection		Licens Capac
Perimeter Performance AI		Audi
by Recorder (Number of Channels)	24 channels, 10 IVS rules for each channel	Acces
Perimeter Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)	Netwo
Face Detection		
Face Attributes	6 attributes	Resolu
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)	
Face Detection Performance of AI by Camera (Number of Channels)	32 channels	Decoc
Face Recognition		
Face Database Capacity	Up to 20 face databases with 200,000 images, with a total capacity of 44 G.	
Face Recognition Performance of AI by Recorder (Number of	Sub screen 4K enabled: 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:	Video
Channels)	16-channel FD (by camera) + FR (by recorder),image stream: 32 face images/s 8-channel FD (by recorder) + FR (by recorder), video	Multi-
	stream: 16 face images/s	Third-
Face Recognition Performance of Al by Camera (Number of Channels)	32 channels	Com
		Video
SMD Plus		Audio
SMD Plus by Recorder	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	

SMD Plus by Camera	All channels (64 targets/s)		
Video Metadata			
Metadata Performance of Al by Recorder (Number of Channels)	8 channels, 23 attributes extraction.		
Metadata Performance of Al by Camera (Number of Channels)	32 channels		
People Attributes	9 human body attributes		
Motor Vehicle Attributes	9 attributes		
Non-motor Vehicle Attributes	4 attributes		
Vehicle License Plate	Comparison		
ANPR by Camera (Number of Channels)	All channels (32 targets/s)		
License Plate Database Capacity	<ol> <li>Create up to 20,000 plate numbers.</li> <li>Blocklist and allowlist</li> </ol>		
Audio and Video			
Access Channel	32 channels		
Network Bandwidth	Al disabled: 512 Mbps incoming, 512 Mbps recording and 512 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing		
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF		
Decoding Capability	Al 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 Al 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; 32-channel 720p@30 fps		
Video Output	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		
Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16		
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha		
Compression Standard			
Compression Standar			
Compression Standar	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		

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### Network

VGA

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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			

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 x 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-NVR5832RH-XI	32CH 2U 8HDDs WizMind Network Video Recorder