

DHI-NVR5432-16HP-XI/Pro

32CH 1.5U 16PoE 4HDDs 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

With the innovation and advancement of Xinghan Large-Scale Model technology, Dahua makes a landmark launch of the WizSeek NVR. It achieves efficient alignment and collaborative understanding between images and natural language, empowering diverse applications such as text-to-image search with WizSeek and the Text-Defined Alarms feature. These capabilities make it ideally suited for a wide range of scenarios, including public safety and security, retail businesses, smart home, residential communities and more.

Functions

WizSeek

Powered by Xinghan large-scale AI model, WizSeek enables naturallanguage video search for human, vehicle, object, and event with high accuracy, while reducing investigation time by transforming manual reviews into instant results.

NVR NEXT

With its enhanced system, the NVR introduces NVR NEXT, a user-friendly GUI featuring a modular design to improve operation efficiency and streamline work lows, catering to the needs of small and medium-sized businesses.

AcuPick

This industry-leading search technology effectively utilizes back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 40 × 1080p@30 fps or 20 × 4 MP@30 fps.
- · Max. 512/512/384 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- Supports 8K HDMI output.
- · Intelligent analytics based on Xinghan Large-Scale AI Models
- Al by Recorder supports 8-channel face detection and recognition, up to 20 face databases and 200,000 face images; 8-channel metadata; 8-channel AcuPick; 16-channel perimeter protection;
- Al by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, people counting and AcuPick
- · Supports N+M cluster, 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.

Perimeter Protection

Automatically ilters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

Tochnical Specification	n .		Face Recognition	
Technical Specification			Performance of AI by	Xinghan Large-Scale Al Models disabled: 16-channel FD (by recorder) + FR (by recorder), video stream: 16
System			Recorder (Number of Channels)	face images/s
Main Processor	Industrial-grade processor		Face Recognition	
Operating System	Embedded Linux		Performance of Al by Camera (Number of	All channels (32 targets/s)
Operating Interface	Web, Local GUI		Channels)	
Al			SMD	
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD; AcuPick; WizSeek; Texted-Defined Alarming Face detection; face recognition; video metadata		SMD Plus by Recorder	Xinghan Large-Scale AI Models enabled: Not support Xinghan Large-Scale AI Models disabled: 32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change
Al by Camera	(human, motor vehicles, and non-motor vehicles); perimeter protection; SMD; stereo analysis; crowd distribution; people counting; ANPR; heat map; PPE		SMD by Camera	All channels (64 targets/s)
			Video Metadata	
AcuPick Performance of Al by Recorder (1080P) (Number of Channels)	Acupick Xinghan Large-Scale Al Models enabled: 8 channels Xinghan Large-Scale Al Models disabled: 16 channels		Metadata Performance of Al by Recorder (Number of Channels)	Xinghan Large-Scale AI Models enabled: 8 channels, 23 attributes extraction. Xinghan Large-Scale AI Models disabled: 16 channels, 23 attributes extraction.
AcuPick Performance of Al by Camera (1080P) (Number of Channels)	All channels (36 targets/s)		Metadata Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)
WizSeek			People Attributes	9 human body attributes
Performance	Compatible with cameras that support AcuPick, it can meet full-channel WizSeek. Compatible with normal cameras, after enabling AcuPick by NVR, it can offer up to 8-channel WizSeek. Modeling capability: up to 432,000 targets per day.		Motor Vehicle Attributes	9 attributes
			Non-motor Vehicle Attributes	4 attributes
Search Language English; TradChinese; Korean			Vehicle License Plate Comparison	
Perimeter Protection			ANPR by Camera (Number of Channels)	All channels (32 targets/s)
Perimeter Performance Al by Recorder (Number of Channels)	Xinghan Large-Scale AI Models enabled : 16 channels, 10 IVS rules for each channel Xinghan Large-Scale AI Models disabled : 32 channels, 10 IVS rules for each channel		License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist
			Audio and Video	
Perimeter Performance of Al by Camera (Number of	All channels (32 targets/s)		Access Channel	32 channels
Channels) Face Detection			Network Bandwidth	Al disabled: 512 Mbps incoming, 512 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
Face Attributes	6 attributes			
Face Detection Performance of AI by	Xinghan Large-Scale AI Models enabled: 8 channels (up to 12 face images/s each channel)		Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF
Recorder (Number of Channels)	Xinghan Large-Scale Al Models disabled: 16 channels (up to 12 face images/s each channel)		Decoding Capability	Al disabled: 2-channel 32 MP@30 fps; 3-channel 24 MP@30 fps; 5-channel 16 MP@30 fps; 6-channel 12 MP@30 fps; 10-channel 8 MP@30 fps; 13-channel 6 MP@30 fps; 16-channel 5 MP@30 fps; 20-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
Face Detection Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)			
Face Recognition				MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4
Face Database Capacity	Up to 20 face databases with 200,000 images, with a total capacity of 44 G.			MP@30 fps; 24-channel 1080p@30 fps; 32-channel 720p@30 fps
Face Recognition Performance of AI by Recorder (Number of Channels)	32-channel FD (by camera) + FR (by recorder),image stream: 32 face images/s Xinghan Large-Scale AI Models enabled: 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s			

Video Output	2 VGA, 2 HDMI VGA: 1920 \times 1080, 1280 \times 1024, 1280 \times 720 HDMI: 7680 \times 4320, 3840 \times 2160, 1920 \times 1080, 1280 \times 1024, 1280 \times 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						
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG					
Audio Compression	G.711a; G.711u; PCM; G726					
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 24.12(Profile T; Profile S; Profile G); CGI; SDK					
Browser	Chrome; Firefox; IE					
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					
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, 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; audio; buzzer; log, preset; email					
Port						
Audio Input	1-channel RCA					
Audio Output	2-channel RCA					
Alarm Input	16 channels					
Alarm Output	6 channels (1-channel 12 V 1 A output)					

Disk Interface	4 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	1 (half-duplex serial communication)	
USB	3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)	
HDMI	2	
VGA	2	
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)	
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE	
General		
Power Supply	100–240 VAC, 50-60 Hz	
Power Consumption	<18 W (without HDD) Total output power of PoE is 200 W, the maximum output power of a single port is 25.5 W	
Net Weight	4.62 kg (10.19 lb)	
Gross Weight	6.75 kg (14.88 lb)	
Product Dimensions	440.0 mm × 411.4 mm × 76.0 mm (17.32" × 16.20" × 2.99") (W × D × H)	
Packaging Dimensions	529.0 mm × 500.0 mm × 211.0 mm (20.83" × 19.69" × 8.31") (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	
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	

Ordering Information						
Туре	Model	Description				
NETWORK VIDEO RECORDER	DHI-NVR5432-16HP-XI/Pro	32CH 1.5U 16PoE 4HDDs WizMind Network Video Recorder				
Accessories (Optional)	DH-RailBracket60/L-Shaped	Domestic DH 0CH 0 Server Cabinet Rail Bracket				
	DHI-ARB1606	Alarm Box				

LVD: EN 62368-1:2014

55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE-

Accessories

Optional:

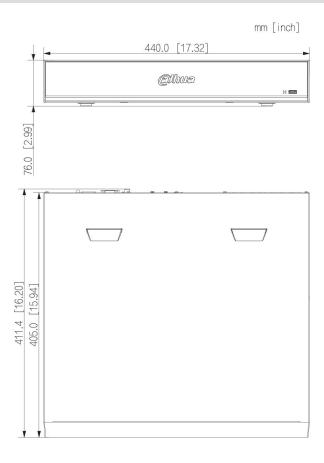




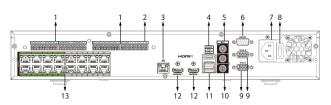
DH-RailBracket60/L-Shaped Domestic DH 0CH 0 Server Cabinet Rail Bracket

DHI-ARB1606 Alarm Box

Dimensions (mm[inch])



Panels



- 1 Alarm In/Out
- 3 Network Port
- 5 AUDIO OUT, RCA Connector
- 7 Power Input
- 9 VGA Port
- 11 USB Ports
- 13 PoE Ports

- 2 RS-485 Port
- 4 eSATA Ports
- 6 RS-232 Port
- 8 Power Switch
- 10 AUDIO IN, RCA Connector
- 12 HDMI Port