



DHI-NVR5208-8P-XI

8CH 1U 8POE 2HDDs 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, 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. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 32 MP.
- · Supports AcuPick with up to 8 channels.
- 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 perimeter protection; 8-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, ISCSI.
- Supports QuickPick, 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.

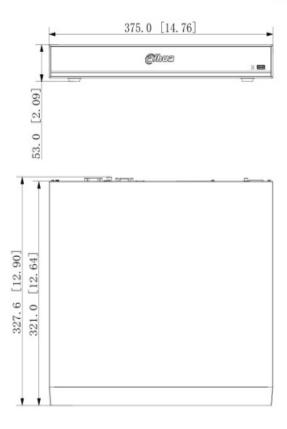
Technical Specification			Metadata Performance of	
System			Al by Camera (Number of Channels)	8 channels
Main Processor	Industrial-grade processor		People Attributes	9 human body attributes
Operating System	Embedded Linux		Motor Vehicle Attributes	9 attributes
Operating Interface	Web, Local GUI		Non-motor Vehicle Attributes	4 attributes
Al			Vehicle License Plate	Comparison
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD		ANPR by Camera (Number of Channels)	8 channels
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		License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist
			Audio and Video	
AcuPick AI by Camera +	Max. 8-channel, 1 combined event per channels		Access Channel	8 channels
Recorder Perimeter Protection			Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing
Perimeter Performance AI by Recorder (Number of Channels)	8 channels, 10 IVS rules for each channel		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
Perimeter Performance of Al by Camera (Number of Channels)	8 channels		Decoding Capability	Al disabled: 2-channel 32 MP@25fps; 2-channel 24 MP@25 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps;8-channel 8 MP@30 fps Al enabled: 1-channel 32 MP@25 fps; 1-channel 24
Face Detection				MP@25 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps;6-channel 8 MP@30 fps; 8-channel 5
Face Attributes	6 attributes			MP@30 fps
Face Detection Performance of AI by Recorder (Number of Channels)	8 channels (up to 12 face images/s each channel)		Video Output	1 VGA, 1 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI and VGA
Face Detection Performance of AI by Camera (Number of	8 channels		Multi-screen Display	Main screen: 1/4/8/9 Sub screen: 1/4/8/9
Channels)			Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha
Face Recognition			Compression Standard	
Face Database Capacity	Up to 20 face databases with 2,000,00 images, with a total capacity of 44 G.		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Recognition	8-channel FD (by camera) + FR (by recorder),image		Audio Compression	G.711a; G.711u; PCM; G726
Performance of AI by Recorder (Number of Channels)	stream: 32 face images/s 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s		Network	
Face Recognition Performance of AI by Camera (Number of	8 channels		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
Channels)			Mobile Phone Access	iOS; Android
SMD Plus			Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Browser	Chrome; Firefox; IE
SMD Plus by Camera	8 channels		Recording Playback	
Video Metadata			Multi-channel Playback	Up to 8 channels
Metadata Performance of Al by Recorder (Number of	8 channels, 23 attributes extraction.		Record Mode	General; motion detection; intelligent; alarm; POS
			Backup Method	USB device and network
Channels)			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, 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	1-channel RCA		
Alarm Input	4 channels		
Alarm Output	2 channels		
Disk Interface	2 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.		
RS-232	1		
RS-485	1		
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)		
HDMI	1		
VGA	1		
Network Port	1(10/100/1000 Mbps Ethernet port, RJ-45)		
PoE Port	8 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE		
General			
Power Supply	100–240 VAC, 47-63 Hz		
Power Consumption	<10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5 W		
Net Weight	2.59 kg (5.71 lb)		
Gross Weight	3.74 kg (8.25 lb)		
Product Dimensions	375.0 mm \times 327.6 mm x 53.0 mm (14.76" \times 12.90" \times 2.09") (W \times D \times H)		
Packaging Dimensions	449.0 mm x 421.0 mm x 170.0 mm (17.68" x 16.57" x 6.69")(W x D x 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		

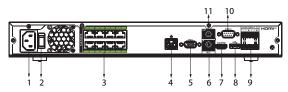
Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR5208-8P-XI	8CH 1U 8POE 2HDDs WizMind Network Video Recorder			

Dimensions (mm[inch])

mm [inch]



Panels



- 1 Power Input
- 3 PoE Ports
- 5 VGA Port
- 7 HDMI Port
- 9 Alarm In/Out
- 11 MIC OUT, RCA Connector
- 2 Power Switch
- 4 Network Port
- 6 MIC IN, RCA Connector
- 8 USB Port
- 10 RS-232 Port