



# DHI-NVR5208-XI

# 8CH 1U 2HDDs 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 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 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 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.

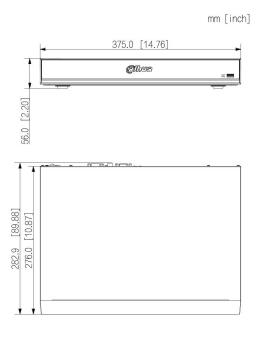
Technical Specification		Video Metadata		
System		Metadata Performance of Al by Recorder (Number of	8 channels, 23 attributes extraction.	
Main Processor	Industrial-grade processor	Channels)	o channels, 25 attributes extraction.	
Operating System	Embedded Linux	Metadata Performance of	8 channels	
Operating Interface	Web, Local GUI	Al by Camera (Number of Channels)		
Al		People Attributes	9 human body attributes	
	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD	Motor Vehicle Attributes	9 attributes	
Al by Recorder		Non-motor Vehicle Attributes	4 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	Vehicle License Plate	Vehicle License Plate Comparison	
		ANPR by Camera (Number of Channels)	All channels (32 targets/s)	
AcuPick AI by Camera + Recorder	Max. 8-channel, 1 combined event per channel	License Plate Database Capacity	Create up to 20,000 plate numbers.     Blocklist and allowlist	
Perimeter Protection		Audio and Video		
Perimeter Performance Al		Access Channel	8 channels	
by Recorder (Number of Channels) Perimeter Performance of	8 channels, 10 IVS rules for each channel	Network Bandwidth	Al disabled: 512 Mbps incoming, 512 Mbps recording and 512 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording	
Al by Camera (Number of Channels)	All channels (32 targets/s)		and 200 Mbps outgoing  32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP;	
Face Detection		Resolution	3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	
Face Attributes  Face Detection Performance of AI by Recorder (Number of Channels)	6 attributes 8 channels (up to 12 face images/s each channel)	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 MP@25 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	
Face Detection Performance of AI by Camera (Number of Channels)	8 channels	Video Output	1 VGA, 1 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
Face Recognition			Heterogeneous video source output for HDMI and VGA	
Face Database Capacity	Up to 20 face databases with 2,000,00 images, with a total capacity of 44 G.	Multi-screen Display	Main screen: 1/4/8/9 Sub screen: 1/4/8/9	
Face Recognition Performance of Al by	8-channel FD (by camera) + FR (by recorder),image stream: 32 face images/s	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	
Recorder (Number of	8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s	Compression Standard		
Channels)	Stream. 10 face images/s	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Face Recognition Performance of AI by	8 channels	Audio Compression	G.711a; G.711u; PCM; G726	
Camera (Number of Channels)		Network		
SMD Plus SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and	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	
	lighting condition change	Mobile Phone Access	iOS; Android	
SMD Plus by Camera	All channels (64 targets/s)	Interoperability	ONVIF 23.06(Profile T; Profile S; Profile G); CGI; SDK	
		Browser	Chrome; Firefox; IE	

Recording Playback	
Multi-channel Playback	Up to 8 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, 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)
General	
Power Supply	12 VDC, 4 A
Power Consumption	<10 W (without HDD)
Net Weight	1.56 kg (3.44 lb)
Gross Weight	2.86 kg (6.31 lb)
Product Dimensions	375.0 mm × 282.9 mm × 56.0 mm (14.76" × 11.14" × 2.20") (W ×D × H)
Packaging Dimensions	433.0 mm × 366.0 mm x 141.0 mm (17.05" × 14.41" × 5.55") (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)

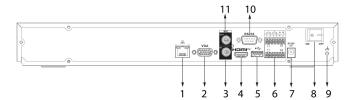
Operating Humidity	10%–93% (RH), non-condensing	
Installation	Rack or desktop	
Certifications	Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE- LVD: EN 62368-1:2014	

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

# Dimensions (mm[inch])



# **Panels**



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