



# DHI-NVR5216-XI

### 16CH 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 At 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**

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 16 channels.
- Al by Recorder supports 8-channel face detection and recognition, up to 20 face databases and 200,000 face images; 8-channel metadata; 16-channel perimeter protection; 16-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**

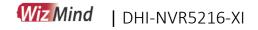
With deep learning algorithm, Dahua ANPR technology can recognize the number plate information of vehicles in the image with ANPR cameras. Support blocklist/allowlist mode, searching target vehicles from recorded video.

#### **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 Specificatio	n		Metadata Performance of AI by Camera (Number of
System			Channels)
Main Processor	Industrial-grade processor		People Attributes
Operating System	Embedded Linux		Motor Vehicle Attributes
Operating Interface	Web, Local GUI		Non-motor Vehicle Attributes
Al			Vehicle License Plate
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)	
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
			Audio and Video
AcuPick AI by Camera +	May 16 about 1 acception descent and should		Access Channel
Recorder	Max. 16-channel, 1 combined event per channels		
Perimeter Protection			Network Bandwidth
Perimeter Performance AI by Recorder (Number of	16 channels, 10 IVS rules for each channel	each channel	
Channels)	,		Resolution
Perimeter Performance of AI by Camera (Number of	16 channels		
Channels)			
Face Detection			Decoding Capability
Face Attributes	6 attributes		
Face Detection Performance of AI by			
Recorder (Number of	8 channels (up to 12 face images/s each channel)		
Channels)			Video Output
Face Detection Performance of AI by	16 channels		
Camera (Number of Channels)			Multi-screen Display
Face Recognition			Third-party Camera Access
Face Database Capacity	Up to 20 face databases with 2,000,00 images, with a		
	total capacity of 44 G.		Compression Standa
Face Recognition Performance of AI by	16-channel FD (by camera) + FR (by recorder),image stream: 32 face images/s		Video Compression
Recorder (Number of Channels)	8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s		Audio Compression
Face Recognition			Network
Performance of AI by Camera (Number of	16 channels		Network Protocol
Channels)			NELWOIK FIOLOCOI
SMD Plus			Mobile Phone Access
SMD Blue by Poceedor	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Interoperability
SMD Plus by Recorder		Browser	
SMD Plus by Camera	16 channels		Recording Playback
Video Metadata			Multi-channel Playback
Metadata Performance of Al by Recorder (Number of Channels)		Record Mode	
	8 channels, 23 attributes extraction.		Backup Method
			backup Wictiou



	Instant playback, general playback, event playback, to			
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 $\times$ 282.9 mm x 56.0 mm (14.76" $\times$ 11.14" $\times$ 2.20") (W $\times$ D $\times$ H)			
Packaging Dimensions	433.0 mm <b>x</b> 366.0 mm x 141.0 mm (17.05" <b>x</b> 14.41" <b>x</b> 5.55") (W <b>x</b> D <b>x</b> 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-NVR5216-XI	16CH 1U 2HDDs WizMind Network Video Recorder		

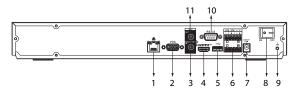
## Dimensions (mm[inch])

mm [inch]





#### **Panels**



- 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