



DHI-NVR5216-XI

16CH 1U 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. 512/512/512 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 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		Vid	Video Metadata		
System		Metadata Performance of			
Main Processor	Industrial-grade processor		y Recorder (Number of nnels)	8 channels, 23 attributes extraction.	
Operating System	Embedded Linux	Meta	adata Performance of	16 channels	
Operating Interface	Web, Local GUI		y Camera (Number of nnels)		
Al			ple Attributes	9 human body attributes	
	Face detection; face recognition; video metadata	Moto	or Vehicle Attributes	9 attributes	
Al by Recorder	(human, motor vehicles, and non-motor vehicles); perimeter protection; SMD		-motor Vehicle ibutes	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	Veh	Vehicle License Plate Comparison		
		ANPI	R by Camera (Number hannels)	All channels (32 targets/s)	
AcuPick AI by Camera + Recorder	Max. 16-channel, 1 combined event per channel	Licer Capa	nse Plate Database acity	Create up to 20,000 plate numbers. Blocklist and allowlist	
Perimeter Protection		Auc	Audio and Video		
Perimeter Performance Al		Acce	ess Channel	16 channels	
by Recorder (Number of Channels) Perimeter Performance of Al by Camera (Number of	16 channels, 10 IVS rules for each channel All channels (32 targets/s)	Netv	work 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	
Channels)		Reso	olution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF; QCIF	
Face Detection				Al disabled: 2-channel 32 MP@30fps; 2-channel 24	
Face Attributes Face Detection Performance of AI by Recorder (Number of Channels)	8 channels (up to 12 face images/s each channel)	Decc	oding Capability	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 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; 16-channel 1080p@30 fps	
Face Detection Performance of AI by Camera (Number of Channels)	16 channels				
Face Recognition		Vide	Video Output	VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
Face Database Capacity	Up to 20 face databases with 2,000,00 images, with a total capacity of 44 G.	vide	o Output	720 Heterogeneous video source output for HDMI and VGA	
Face Recognition Performance of Al by	16-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s	Mult	ti-screen Display	Main screen: 1/4/8/9/16 Sub screen: 1/4/8/9/16	
Recorder (Number of Channels)		Third	d-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	
Face Recognition	16 channels	Cor	Compression Standard		
Performance of AI by Camera (Number of		Vide	eo Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Channels)		Audi	io Compression	G.711a; G.711u; PCM; G726	
SMD Plus		Net	twork		
SMD Plus by Recorder SMD Plus by Camera	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change All channels (64 targets/s)	Netv	work 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	
.2 ,	, , ,	Mob	oile Phone Access	iOS; Android	
		Inter	roperability	ONVIF 23.06(Profile T; Profile S; Profile G); CGI; SDK	
		Dunne		Chromo: Firefov: IE	

Browser

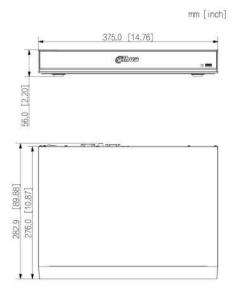
Chrome; Firefox; IE

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, 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 x 56.0 mm (14.76" × 11.14" × 2.20") (W ×D × H)		
Packaging Dimensions	433.0 mm \times 366.0 mm \times 141.0 mm (17.05" \times 14.41" \times 5.55") (W \times D \times 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)		

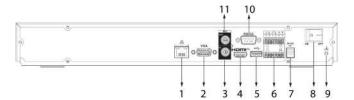
Operating Humidity	10%–93% (RH), non-condensing
Installation	Rack or desktop
Certifications	Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014 CE- LVD: EN 62368-1:2014

Ordering Information						
Туре	Model	Description				
NETWORK VIDEO RECORDER	DHI-NVR5216-XI	16CH 1U 2HDDs WizMind Network Video Recorder				

Dimensions (mm[inch])



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