



DHI-NVR5216-16P-XI

16CH 1U 16POE 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 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 Specification			Metadata Performance of Al by Camera (Number of	16 channels
System			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)	16 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. 16-channel, 1 combined event per channels		Access Channel	16 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)	16 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)	16 channels			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; 12-channel 5 MP@30 fps;16-channel 4 MP@30 fps
Face Detection		Decoding Capability		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 5 MP@30 fps; 12-channel 4 MP@30 fps; 16-channel
Face Attributes	6 attributes			
Face Detection Performance of AI by Recorder (Number of Channels)	8 channels (up to 12 face images/s each channel)		Video Output	1080p@30 fps 1 VGA, 1 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Face Detection Performance of AI by Camera (Number of	16 channels		Multi-screen Display	Heterogeneous video source output for HDMI and VGA Main screen: 1/4/8/9/16
Channels)				Sub screen: 1/4/8/9/16 ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon;
Face Recognition	Up to 20 face databases with 2,000,00 images, with a		Third-party Camera Access	Hanwha
Face Database Capacity	total capacity of 44 G.		Compression Standard	
Face Recognition Performance of AI 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		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Recorder (Number of			Audio Compression	G.711a; G.711u; PCM; G726
Channels) Face Recognition	5		Network	
Performance of Al by Camera (Number of Channels)	16 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
SMD Plus			Mobile Phone Access	iOS; Android
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		Interoperability	ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK
Sivilar has by necoraer			Browser	Chrome; Firefox; IE
SMD Plus by Camera	16 channels		Recording Playback	
Video Metadata			Multi-channel Playback	Up to 16 channels
Metadata Performance of Al by Recorder (Number of Channels)	8 channels, 23 attributes extraction.		Record Mode	General; motion detection; intelligent; alarm; POS
			Backup Method	USB device and network



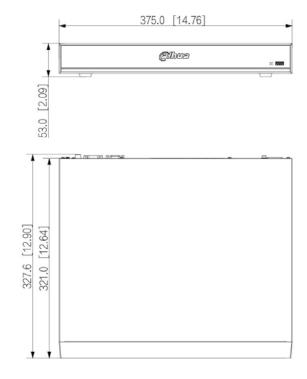
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback		
Storage			
Disk Group	Yes		
Alarm			
General Alarm	Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; thermal alarm		
Anomaly Alarm	Error (no disk, 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)		
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE		
General			
Power Supply	100–240 VAC, 50/60Hz		
Power Consumption	<10 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	2.66 kg (5.86 lb)		
Gross Weight	3.82 kg (8.42 lb)		
Product Dimensions	375.0 mm x 327.6 mm x 53.0 mm (14.76" x 12.90" x 2.09") (W x D x 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		

Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC
61000-3-2:2019+A1:2021; EN 61000-33:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020;
EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014

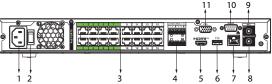
Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR5216-16P-XI	16CH 1U 16POE 2HDDs WizMind Network Video Recorder			

Dimensions (mm[inch])

mm [inch]



Panels



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