

DHI-NVR5816RH-XI

16CH 2U 8HDDs 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 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 × 1080p@30 fps or 16 × 4 MP@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 redundant power, RAID 0/1/5/6/10, N+M cluster, and iSCSI, and has a drawer-like chassis design that allows HDD hot swapping.
- · 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.

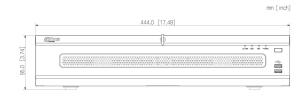
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Recorder (Number of Channels) Sub screen 4K disabled: 16-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s 8-channel FD (by recorder) + FR (by recorder), video stream: 16 face images/s Compression Standard Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJP Audio Compression Smart H.265+; H.265; Smart H.264+; H.264; MJP Audio Compression Network 16 channels: Secondary filtering for human and motor 16 channels: Secondary filtering for human and motor	Face Recognition Performance of Al by			
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Face Recognition Performance of Al by Camera (Number of Channels) SMD Plus 16 channels: Secondary filtering for human and motor Compression Standard Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJP Audio Compression G.711a; G.711u; PCM; G726 Network HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCF SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm S				
Performance of Al by Camera (Number of Channels) SMD Plus 16 channels: Secondary filtering for human and motor 16 channels: Secondary filtering for human and motor Network Network Network Protocol Network Protocol Network Protocol	Face Recognition Performance of Al by Camera (Number of Channels)		·	
Channels) Network SMD Plus HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCF 16 channels: Secondary filtering for human and motor Network Protocol Network Protocol			·	
SMD Plus HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCF 16 channels: Secondary filtering for human and motor Network Protocol Network Protocol				G./11a; G./11u; PCM; G726
16 channels: Secondary filtering for human and motor Network Protocol SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm S	SMD Plus		Network	
olvin Plus by neconder vehicle, reducing laise alarms caused by leaves, rain and PZP; Auto Registration; IP Search (Supports IP call	CMD Divis by December		Network Protocol	SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm S
lighting condition change DVR, NVS, etc.); ISCSI	SIMID Plus by Recorder			

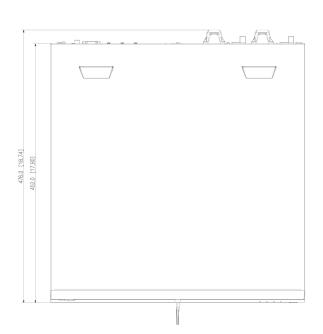
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 23.06(Profile T; Profile S; Profile G); CGI; SDK
Browser	Chrome; IE; Safari; Edge; Firefox
Network Mode	Multi-address; load balance; fault tolerance
Recording Playback	
Multi-channel Playback	Up to 16 channels
Record Mode	General; motion detection; 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
RAID	RAID 0/1/5/6/10
Hot Swapping	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	2-channel RCA
Alarm Input	16 channels
Alarm Output	8 channels (1-channel 12 V 1 A output)
Disk Interface	8 SATA ports. Each disk can contain up to 20 TB. This limit varies depending on the environment temperature.
eSATA	1
RS-232	1
RS-485	2 (1 port for half-duplex serial communication, 1 port for full-duplex serial communication)
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)
HDMI	2
VGA	2
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	100–240 VAC, 50/60 Hz

Redundant Power	Yes	
Power Consumption	<13 W (without HDD)	
Net Weight	8.79 kg (19.38 lb)	
Gross Weight	11.82 kg (26.06 lb)	
Product Dimensions	444.0 mm × 476.0 mm ×95.0 mm(17.48" × 18.74" × 3.74") (W × D × H)	
Packaging Dimensions	618.0 mm \times 571.0 mm x 219.0 mm (24.33" \times 22.48" \times 8.62")(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	

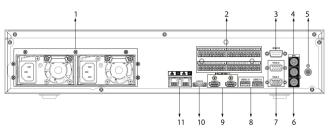
Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR5816RH-XI	16CH 2U 8HDDs WizMind Network Video Recorder			

Dimensions (mm[inch])





Panels



- 1 Power Inputs
- 3 RS-232 Port
- 5 Ground
- 7 VGA Ports
- 9 HDMI Ports
- 11Network Ports

- 2 Alarm In/Out
- 4 MIC OUT, RCA Connector
- 6 MIC IN, RCA Connector
- 8 USB Ports
- 10 eSATA Port