

DHI-NVR616RH-32-XI

32CH 3U 16HDDs 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, NVR600-XI series offers high-grade recording technology and has AI capabilities that are ideal for IP video surveillance applications. This enterprise-level NVR has a powerful processor, built-in deep learning modules, and video metadata technology. It also comes with high-precision human face recognition, perimeter protection and 4K resolution, which together shorten the response time to events and provide critical information that allows surveillance personnel to take immediate action. This NVR is compatible with numerous third-party devices, making it a perfect solution for surveillance systems with or without a video management system.

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. 1280/1280/1024 Mbps incoming/recording/outgoing bandwidth.
- · Supports AcuPick with up to 32 channels.
- Al by Recorder supports 8-channel face detection and recognition, up to 40 face databases and 300,000 face images; 8-channel metadata; 32-channel perimeter protection; 32-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, N+M cluster, Raid 0/1/5/6/10, ISCSI, Drawer-like chassis design allows for HDD hot swapping.
- · Supports EPTZ, One-click Arming & Disarming.
- · Security baseline 2.3.



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.

Scene

Suitable for large public areas such as supermarket, schools, industrial parks and bus stations.

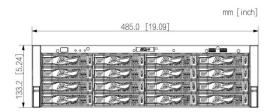
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Heterogeneous mode: 24 channels, 10 NS rules for each channels Channels Perimeter Performance of AI by Camera (Number of Channels) Face Detection Performance of AI by Camera (Number of Channels) Simultaneous mode: 8 channels (up to 12 face images/s each channel) Decoding Capability Decod	Perimeter Performance AI		Access Channel	32 channels	
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Face Recognition Face Database Capacity Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Simultaneous mode: 32-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s, 8-channel FD (by recorder), image stream: 32 face images/s, 8-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s, 8-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s Recorder (Number of Channels) Face Recognition Performance of Al by Cannels (by recorder), independent of the content of the conte	Performance of AI by Camera (Number of	32 channels		2 VGA, 4 HDMI; VGA: 1920 x 1080, 1280 x 1024, 1280 x	
Face Database Capacity Up to 40 face databases with 300,000 images, with a total capacity of 48 G. Simultaneous mode: 32-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s; 8-channel FD (by camera) + FR (by recorder) (by recorder), wideo stream: 10 face images/s Face Recognition Performance of Al by Recorder Pace Recognition Performance of Al by (are images/s) Face Recognition Performance of Al by (are images/s) SMD Plus SMD Plus 32 channels: SMD Plus by Recorder 32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Wideo Output Video Output Video Output Video Output Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDMI1 is 184K; max. resolution of HDMI1, simultaneous video source output for VGA2 and HDMI2. Max. resolution of HDMI1, HDMI2 and VGA2 is 1080p; max. resolution of HDMI1, HDMI2 and HDMI1 is 4K; max. resolution of HDMI1 is 164K; max. resolution of HDMI2 is 4K; max. resolution of HDMI2 is 4K; max. resolution of HDMI2 is 4K; max. resolution of HDMI1 is 164K; max. resolution of HDMI2 is 4K; max. resolution of H	Face Recognition			1024, 1280 × 720; HDMI3: 7680 × 4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI4: 1920 × 1080, 1280 × 1024, 1280 × 720 Simultaneous mode: max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDMI1 and HDMI2 is 4K; max. resolution of HDMI3 is 8K; max. resolution of HDMI4 is 1080p Heterogeneous mode: Simultaneous video source output for VGA1 and HDMI1, simultaneous video source output for VGA2 and HDMI2. Max. resolution of VGA1 and VGA2 is 1080p; max. resolution of HDMI1, HDMI2	
Simultaneous mode: 32-channel FD (by camera) + FR (by recorder), image stream: 32 face images/s; 8-channel FD (by recorder), image stream: 32 face images/s; 8-channel FD (by recorder), image stream: 32 face images/s; 8-channel FD (by recorder), video stream: 16 face images/s Recorder (Number of Channels) Face Recognition Performance of Al by Recorder) Face Recognition Performance of Al by Recorder) Performance of Al by Recorder) Face Recognition Performance of Al by Camera (Number of Channels) SMD Plus SMD Plus SMD Plus by Recorder Simultaneous mode: 32-channel FD (by camera) + FR (by recorder), video stream: 16 face images/s; 8-channel FD (by camera) + FR (by recorder), video stream: 10 face images/s; 5-channel FD (by recorder) + FR (by recorder), video stream: 10 face images/s; 5-channel FD (by recorder) + FR (by recorder), video stream: 10 face images/s Sub Screen: 1/4/8/9/16/25/36 Third-party Camera Access ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha Compression Standard Video Compression Smart H.265+; H.265; Smart H.264+; H.264 Audio Compression G.711a; G.711u; PCM; G726	Face Database Capacity				
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Performance of AI by Camera (Number of Channels) SMD Plus 32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Third-party Camera Access Compression Standard Video Compression Smart H.265+; H.265; Smart H.264+; H.264 Audio Compression G.711a; G.711u; PCM; G726			Multi-screen Display		
SMD Plus 32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change Compression Standard Video Compression Smart H.265+; H.265; Smart H.264+; H.264 Audio Compression G.711a; G.711u; PCM; G726	Performance of AI by Camera (Number of	32 channels	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon;	
SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change Video Compression Smart H.265+; H.265; Smart H.264+; H.264 Audio Compression G.711a; G.711u; PCM; G726			Compression Standa	Compression Standard	
SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change Audio Compression G.711a; G.711u; PCM; G726	5	32 channels: Secondary filtering for human and motor	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264	
SMD Plus by Camera 32 channels	SMD Plus by Recorder	vehicle, reducing false alarms caused by leaves, rain and	Audio Compression	G.711a; G.711u; PCM; G726	
	SMD Plus by Camera	32 channels			

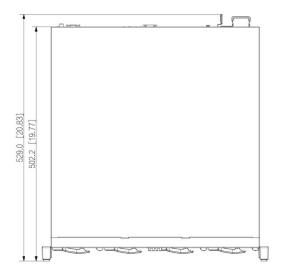
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 22.06(Profile 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 and body detection; face recognition; perimeter protection; SMD; video metadata; stereo analysis, crowd distribution; ; ANPR; heat map			
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	32 channels			
Alarm Output	16 channels			
HDD Interface	16 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	4			
VGA	2			

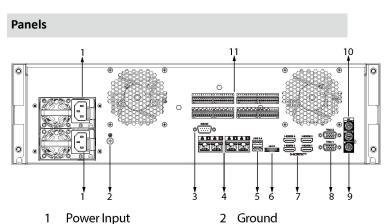
Network Port	4 (10/100/2500 Mbps Ethernet port, RJ-45)
General	
Power Supply	100–240 VAC, 50±2% Hz
Redundant Power	Yes
Power Consumption	<25 W (without HDD)
Net Weight	13.03 kg (28.73 lb)
Gross Weight	15.42 kg (34.01 lb)
Product Dimensions	485.0 mm × 529.0 mm × 133.2 mm(19.09" × 20.83" × 5.24") (W × D × H)
Packaging Dimensions	634.0 mm × 709.0 mm × 429.0 mm(24.96" × 27.91" × 16.89") (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			
Al Network Video Recorder	DHI-NVR616RH-32-XI	32CH 3U 16HDDs WizMind Network Video Recorder			

Dimensions (mm[inch])







- **Power Input** 1
- 3 RS-232 Port
- 5 **USB Port**
- 7 **HDMI** Port

- 9
- AUDIO IN, RCA Connector 10 AUDIO OUT, RCA Connector

Network Port

eSATA Port

8 VGA Port

11 Alarm In/Out