

DHI-NVR616RH-64-XI

64CH 3U 16HDDs 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 Al 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 × 1080p@30 fps.
- Max. 1280/1280/1024 Mbps incoming/recording/outgoing bandwidth.
- Supports AcuPick with up to 64 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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Technical Specification

System			
Main Processor	Industrial-grade processor		
Operating System	Embedded Linux		
Operating Interface	Web, Local GUI		
AI			
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD; ANPR		
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		
AcuPick Al by Camera + Recorder	Max. 64-channel, 1 combined event per channel/s		
Perimeter Protection			
Perimeter Performance Al by Recorder (Number of Channels)	Simultaneous mode: 32 channels, 10 IVS rules for each channel Heterogeneous mode: 24 channels, 10 IVS rules for each channel		
Perimeter Performance of AI by Camera (Number of Channels)	64 channels		
Face Detection			
Face Attributes	6 attributes		
Face Detection Performance of AI by Recorder (Number of Channels)	Simultaneous mode: 8 channels (up to 12 face images/s each channel) Heterogeneous mode: 5 channels (up to 12 face images/s each channel)		
Face Detection Performance of AI by Camera (Number of Channels)	64 channels		
Face Recognition			
Face Database Capacity	Up to 40 face databases with 300,000 images, with a total capacity of 48 G.		
Face Recognition Performance of AI by Recorder (Number of Channels)	Simultaneous mode: 32-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 Heterogeneous mode: 16-channel FD (by camera) + FR (by recorder),image stream: 16 face images/s; 5-channel FD (by recorder) + FR (by recorder), video stream: 10 face images/s		
Face Recognition Performance of AI by Camera (Number of Channels)	64 channels		
SMD Plus			
SMD Plus by Recorder	32 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change		
SMD Plus by Camera	64 channels		

Metadata Performance of AI by Recorder (Number of Channels)	8 channels, 23 attributes extraction.			
Metadata Performance of AI by Camera (Number of Channels)	64 channels			
People Attributes	9 human body attributes			
Motor Vehicle Attributes	9 attributes			
Non-motor Vehicle Attributes	4 attributes			
Vehicle License Plate	Comparison			
ANPR by Camera (Number of Channels)	64 channels			
License Plate Database Capacity	1. Up to 20,000 plate numbers. 2. Blocklist and allowlist			
Audio and Video				
Access Channel	64 channels			
Network Bandwidth	AI disabled: 1280 Mbps incoming, 1280 Mbps recording and 1024 Mbps outgoing AI enabled: 640 Mbps incoming, 640 Mbps recording and 512 Mbps outgoing			
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF			
Decoding Capability	Al disabled: 2-channel 32 MP@30 fps; 2-channel 24 MP@30 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; 32-channel 1080p@30 fps; 64-channel D1@30 fps Al enabled: 1-channel 32 MP@30 fps; 1-channel 24 MP@30 fps; 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 16-channel 5 MP@30 fps; 8-channel 4 MP@30 fps; 16-channel 1080p@30 fps; 64-channel D1@30 fps			
Video Output	2 VGA, 4 HDMI; VGA: 1920 × 1080, 1280 × 1024, 1280 × 720; HDMI1&2: 3840 × 2160, 1920 × 1080, 1280 × 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 and HDMI3 is 4K; max. resolution of HDMI4 is 1080p			
Multi-screen Display	Main Screen: 1/4/8/9/16/25/36/64 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			

Video Metadata

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Network ProtocolHTTP; HTTP; TCP/IP; IP-4/IP-6; UPD; SNMP; NTP; DNNS, Narr Server; IP Search (Support 5 Banua IP camera, DNR, NNS, etc.); Multicast; P2P, Auto Registration : ISCSIMobile Phone AccessIOS; AndroidInteroperabilityONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDKBrowserChrome; IE; Safari; Edge; FirefoxNetwork ModeUp to 16 channelsRecord ModeGeneral, motion detection; intelligent; alarn; POSBackup MethodUSB device and networkPayback ModeInstant playback; general playback; event playback; textPiktoropYesRatorNation O/JS/6/10Hot SwappingYesAlarmVesAnomaly AlarmGuton detection; local alarm; sene changing; PIR alarm; therwork kalarm; sene changing; PIR alarm; therwork kalarm; sene changing; PIR alarm; therwork alarm; sene changing; PIR<	Network				
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HDD interface 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	Alarm Output	16 channels			
RS-232 1 2 (1 port for half-duplex serial communication, 1 port for	HDD Interface				
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KN-485	RS-232	1			
full-duplex serial communication)	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)	USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)			

HDMI

VGA

4

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-64-XI	64CH 3U 16HDDs WizMind Network Video Recorder

Dimensions (mm[inch])



- 6 eSATA Port
- 8 VGA Port
- 9
- AUDIO IN, RCA Connector 10 AUDIO OUT, RCA Connector
- 11 Alarm In/Out

HDMI Port

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