



# DHI-NVR608RH-128-AI/ANZ

128 Channels 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 Al solutions for verticals.

#### **Series Overview**

As a new generation of network video recorders, NVR600-AI/ANZ series offers high-grade recording technology and has AI capabilities that are ideal for IP video surveillance applications. This enterpriselevel 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**

#### **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.

#### **Face Recognition**

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

- · 32-channel 1080p self-adaptive decoding capability.
- Max. 1024/1024/800Mbps incoming/recording/outgoing bandwidth.
- · Supports N+M cluster.
- · Support Raid0/1/5/6/10.
- · Drawer-like chassis design allows for HDD hot swapping.
- · Al by recorder: 4-channel face detection and recognition; 8-channel metadata; 24-channel perimeter protection; 32-channel SMD Plus.
- · Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, and people counting.



#### **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.

#### 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.

<b>Technical Specificat</b>	ion	
System		
Main Processor	Industrial-grade processor	
Operating System	Embedded Linux	
Operating Interface	Web, Local GUI	
Al		
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus	
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; object monitoring	
Perimeter Protectio	n	
Perimeter Performance AI by Recorder (Number of Channels)	24 channels, 10 IVS rules for each channel	
Perimeter Performance of AI by Camera (Number of Channels)	64 channels	
Face Detection		
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	
Face Detection Performance of AI by Recorder (Number of Channels)	4 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. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	
Face Recognition Performance of AI by Recorder (Number of Channels)	1. 20 channels FD (by camera) + FR (by recorder), image stream: 20 face images/s 2. 4 channels FD (by recorder) + FR (by recorder), video stream: 12 face images/s	
Face Recognition Performance of AI by Camera (Number of Channels)	64 channels	
SMD Plus		
SMD Plus by Recorder	32-channel: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	
SMD Plus by Camera	64 channels	
Video Metadata		
Metadata Performance of AI by Recorder (Number of Channels)	8 channels	
Metadata Performance of AI by Camera (Number of Channels)	32 channels	
Human Attributes	Top color, top type, hat, bag, age, gender and umbrella	

Motor Vehicle Attributes	License plate, plate color, vehicle model, vehicle logo, plate color, ornament, calling,			
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.			
Vehicle License Plate Comparison				
ANPR by Camera (Number of Channels)	32 channels			
License Plate Database Capacity	Blocklist and allowlist: 20,000			
Audio and Video				
Access Channel	128 channels			
Network Bandwidth	Al disabled: 1024 Mbps incoming, 1024 Mbps recording and 800 Mbps outgoing Al enabled: 512 Mbps incoming, 512 Mbps recording and 400 Mbps outgoing			
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1			
Decoding Capability	2-channel 32 MP@30 fps; 2-channel 24 MP@30 fps; 4-channel 16 MP@30 fps; 8-channel 8 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps; 72-channel 720P@30 fps 160-channel D1@30 fps			
Video Output	2-channel VGA, 4-channel HDMI video output. 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 is1080p 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; RTSP; Sony; Axis; Arecont; Pelco; Canon; Samsung			
Compression Standa	ard			
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MPEG4; MJPEG			
Audio Compression	G.711a; G.711u; PCM; G726			
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF (Profile S/profile T/Profile G); CGI; SDK			
Browser	Chrome IE 9 or later Firefox			
Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes			
Recording Playback				
Multi-channel Playback	Up to 16 channels			
Record Mode	Manual; alarm; motion detection; scheduled			
Backup Method	Portable hard drive, eSATA disk, burner, USB device and network			
Playback Mode	Play, pause, stop, fast forward, fast backward, rewind, play by frame     Full screen, backup (cut/file), partially enlarge, audio			



Storage		
Disk Group	Yes	
RAID	RAID 0/1/5/6/10	
Hot Swapping	Yes	
Alarm		
General Alarm	Motion detection; video tampering; video loss; scene changing, PIR alarm, IPC external alarm	
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan	
Intelligent Alarm	Face detection; face recognition; perimeter protection (intrusion and tripwire); SMD Plus alarms; ANPR; people counting; stereo analysis; crowd distribution; heat map	
Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log, preset; email	
Port		
Audio Input	1-channel RCA	
Audio Output	2-channel RCA	
Alarm Input	16 channels	
Alarm Output	8 channels	
HDD Interface	8 SATA ports, up to 16 TB. The maximum HDD capacity varies with environment temperature.	
eSATA	1	
RS-232	1	
RS-485	1×A/B	
USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)	
HDMI	4	
VGA	2	
Network Port	2 (10/100/1000/2500 Mbps Ethernet port, RJ-45)	
General		
Power Supply	100–240 VAC, 50/60 Hz	
Redundant Power	Yes	
Power Consumption	<18 W (without HDD)	
Net Weight	8.14 kg (17.95 lb) (without HDD)	
Gross Weight	12.24 kg (26.98 lb) (without HDD)	
Product Dimensions	444.0 mm × 476.0 mm x 95.0 mm (17.48" × 18.74" × 3.74") (W × D × H)	
Packaging Dimensions	571.0 mm × 618.0 mm × 219.0 mm (22.48" × 24.33" × 8.62") (W × D × H)	
Operating Temperature	−10 °C to +55 °C (14 °F to +131 °F)	
Operating Humidity	10%-93% (RH)	
Installation	Rack or desktop	
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2020, Class A; EN IEC 61000-3-2:2019; EN 61000-3-3:2013+A1:2019; EN 55024:2010+A1:2015; EN 55035:2020; EN 50130-4:2011+A1:2014 CE-LVD: EN 62368-1:2014+A11:2017	

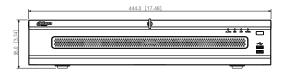
Ordering Information				
Туре	Model	Description		
128 Channels WizMind NVR	DHI-NVR608RH- 128-AI/ANZ	128 Channels 2U 8HDDs WizMind Network Video Recorder		
Accessories	ESS1504C	4 HDDs eSATA Storage		

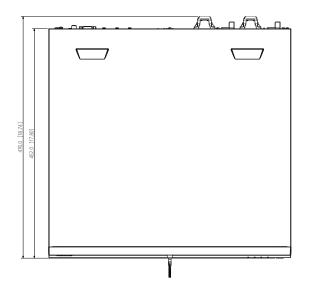
# Accessories



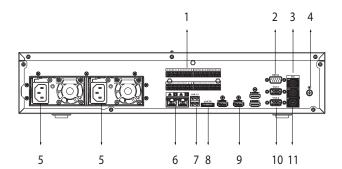
ESS1504C 4 HDDs eSATA Storage

# Dimensions (mm[inch])





### **Panels**



- Alarm In/Out 1
- 2

6

- AUDIO OUT, RCA Connector 3
- 4 Ground
- Power Input 5
- Network Ports

RS-232 Port

- USB Ports 7
- 8 eSATA Port

- 9 **HDMI** Ports
- VGA Ports 10
- 11 AUDIO IN, RCA Connector