

# DHI-NVR58128H-XI

# 128CH 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 x 1080p@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 36 channels.
- Al by Recorder supports 4-channel face detection and recognition, up to 20 face databases and 200,000 face images; 4-channel metadata; 12-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 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.

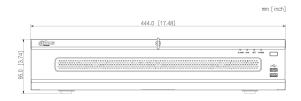
Technical Specification			Video Metadata	
System			Metadata Performance of Al by Recorder (Number of	4 channels, 23 attributes extraction.
Main Processor	Industrial-grade processor		Channels)	*The sub screen only supports 1080p.
Operating System	Embedded Linux		Metadata Performance of	16 channels
Operating Interface	Web, Local GUI	Al by Camera (Number of Channels)		To Chainleis
Al			People Attributes	9 human body attributes
	perimeter protection; SMD		Motor Vehicle Attributes	9 attributes
Al by Recorder			Non-motor Vehicle Attributes	4 attributes
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		Vehicle License Plate Comparison	
			ANPR by Camera (Number of Channels)	32 channels
AcuPick AI by Camera + Recorder	Max. 36-channel, 1 combined event per channels		License Plate Database Capacity	Create up to 20,000 plate numbers.     Blocklist and allowlist
Perimeter Protection			Audio and Video	
Perimeter Performance Al	12 channels, 10 IVS rules for each channel		Access Channel	128 channels
by Recorder (Number of Channels)  Perimeter Performance of Al by Camera (Number of	*The sub screen only supports 1080p.  32 channels		Network Bandwidth	Al disabled: 512 Mbps incoming, 512 Mbps recording and 512 Mbps outgoing Al enabled: 256 Mbps incoming, 256 Mbps recording and 256 Mbps outgoing
Channels)	S. S		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
Face Detection	Cattributes		Decoding Capability	Al disabled: 2-channel 32 MP@30fps; 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 720p@30 fps; 128-channel D1@30 fps Al enabled: 1-channel 32 MP@30 fps; 1-channel 24
Face Attributes  Face Detection  Performance of Al by  Recorder (Number of Channels)	6 attributes  4 channels (up to 12 face images/s each channel)  *The sub screen only supports 1080p			
Face Detection Performance of Al by Camera (Number of Channels)	32 channels			MP@30 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; 24-channel 1080p@30 fps; 48-channel 720p@30 fps; 64-channel D1@30 fps
Face Recognition		Video Output	2 VGA, 2 HDMI	
Face Database Capacity  Face Recognition  Performance of Al by	Up to 20 face databases with 200,000 images, with a total capacity of 44 G.  32-channel FD (by camera) + FR (by recorder),image stream: 32 face images/s 4-channel FD (by recorder) + FR (by recorder), video		Video Output	$VGA:1920\times1080,\ 1280\times1024,\ 1280\times720$ $HDMI:3840\times2160,\ 1920\times1080,\ 1280\times1024,\ 1280\times720$ $Heterogeneous\ video\ source\ output\ for\ HDMI1\ and\ HDMI2$ $Simultaneous\ video\ source\ output\ for\ VGA1\ and\ HDMI1$
Recorder (Number of Channels)	stream: 16 face images/s *The sub screen only supports 1080p			Simultaneous video source output for VGA2 and HDMI2  Main screen: 1/4/8/9/16/25/36/64
Face Recognition Performance of Al by Camera (Number of	32 channels		Multi-screen Display  Third-party Camera Access	Sub screen: 1/4/8/9/16  ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha
Channels)			Compression Standar	
SMD Plus			Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change *The sub screen only supports 1080p.		Audio Compression	G.711a; G.711u; PCM; G726
			Network	, , ,
SMD Plus by Camera	32 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
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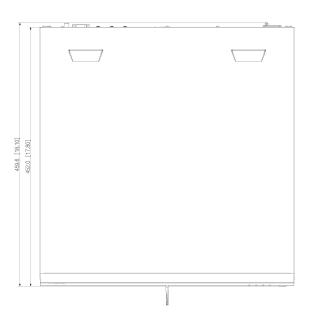
Mobile Phone Access	iOS; Android		
Interoperability	ONVIF 23.06(Profile T; Profile S; Profile G); CGI; SDK		
Browser	Chrome; IE; Safari; Edge; Firefox		
Network Mode	Multi-address; load balance; fault tolerance		
Recording Playback			
Multi-channel Playback	Up to 16 channels		
Record Mode	General; motion 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)		
	2		
HDMI			
HDMI VGA	2		
	2 2 (10/100/1000 Mbps Ethernet port, RJ-45)		

Power Consumption	<13 W (without HDD)		
Net Weight	7.48 kg (19.38 lb)		
Gross Weight	10.2 kg (26.06 lb)		
Product Dimensions	440.0 mm $\times$ 459.6 mm x 95.0 mm (17.32" $\times$ 18.09" $\times$ 3.74") (W $\times$ D $\times$ H)		
Packaging Dimensions	570.0 mm × 570.0 mm × 226.0 mm (22.44" × 22.44" × 8.90") (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		

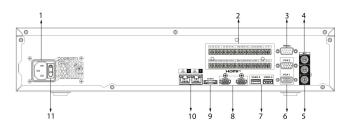
Ordering Information						
Type	Model	Description				
NETWORK VIDEO RECORDER	DHI-NVR58128H-XI	128CH 2U 8HDDs WizMind Network Video Recorder				

# Dimensions (mm[inch])





# **Panels**



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

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