

DHI-NVR5864-16P-EI

Dahua 64CH 8HDD 2U NETWORK VIDEO RECORDER







Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Dahua's advanced technologies, WizSense provides intelligent, simple and inclusive products and solutions.

Series Overview

The NVR5000-EI series offers outstanding performance and high-grade recording technology that make it ideal for IP video surveillance applications. It has a powerful processor, that offers high access and forwarding bandwidth and strong decoding capabilities that together produce unimpeded streams. Thanks to its built-in AI chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of AI functions, such as high-precision face recognition and perimeter protection. They shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

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 32 × 2MP@30 fps.
- · Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- · Supports AcuPick with up to 32 channels.
- · Supports N+M cluster,iSCSI.
- · Support Raid0/1/5/6/10.
- Al by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-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 EPTZ, and one-click arming and disarming.





















Face Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition

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

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.

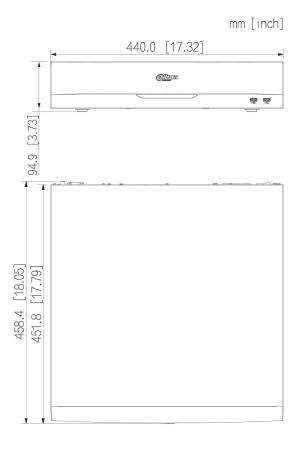
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Mobile Phone Access iOS; Android		vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Network Protocol	SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto	
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			Interoperability	ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK	

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 (face and motion detection) Storage Disk Group Yes RAID RAID 0/1/5/6/10 Alarm General Alarm Motion detection; local alarm; alarm box; camera external alarm; network alarm; scene changing; PIR alarm; the storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map Port Audio Input 1-channel RCA Audio Output 2-channel RCA Alarm Input 16 channels Alarm Output 3 channels (1-channel 12 V 1 A output) Bis 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 Network Port 1 (10/100/1000 Mbps; IEEE 802.3 af/at, 1-8 ports support ePoE	Browser	Chrome; IE; Safari; Edge; Firefox				
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Audio Output 2-channel RCA Alarm Input 16 channels Alarm Output 8 channels (1-channel 12 V 1 A output) 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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	Port					
Alarm Input 16 channels Alarm Output 8 channels (1-channel 12 V 1 A output) 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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	Audio Input	1-channel RCA				
Alarm Output 8 channels (1-channel 12 V 1 A output) 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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	Audio Output	2-channel RCA				
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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	Alarm Input	16 channels				
Disk Interface 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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	Alarm Output	8 channels (1-channel 12 V 1 A output)				
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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	Disk Interface	TB. This limit varies depending on the environment				
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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	eSATA	1				
FS-485 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 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	RS-232	1				
HDMI 2 VGA 2 Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	RS-485					
VGA 2 Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	USB	4 (2 front USB 2.0 ports, 2 rear USB 3.0 ports)				
Network Port 1 (10/100/1000 Mbps Ethernet port, RJ-45) PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	HDMI	2				
PoF Port 16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports	VGA	2				
POF PORT	Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)				
	PoE Port					
General						
Power Supply 100–240 VAC, 50-60 Hz	Power Supply	100–240 VAC, 50-60 Hz				
Total output of NVR is \leq 13 W (without HDD) Total output power of PoE is 150 W, the maximum output power of a single port is 25.5 W	Power Consumption	output power of PoE is 150 W, the maximum output				

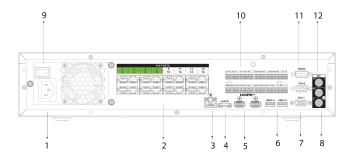
Net Weight	6.90 kg (15.21 lb)	
Gross Weight	9.49 kg (20.92 lb)	
Product Dimensions	440.1 mm × 457.9 mm x 89.1 mm (17.32" × 18.03" × 3.51") (W ×D × H)	
Packaging Dimensions	570.0 mm \times 570.0 mm \times 226.0 mm (22.44" \times 22.44" \times 8.90") (W \times D \times H)	
Operating Temperature	-10 °C 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	FCC: 47 CFR FCC Part15, SubpartB, 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-NVR5864-16P-EI	Dahua 64CH 8HDD 2U NETWORK VIDEO RECORDER			

Dimensions (mm[inch])



Panels



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