

DHI-NVR5424-24P-EI

24CH 1.5U 24POE 4HDDs WizSense Network Video Recorder



Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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
- Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.
- Supports IP cameras with a resolution up to 32 MP.
- Supports AcuPick with up to 24 channels.
- Al by recorder: supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection, and 8-channel SMD Plus.
- AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- Supports N+M cluster, ISCSI.
- · 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.

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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Technical Specification	n	
System		
Main Processor	Industrial-grade processor	
perating System	Embedded Linux	
perating Interface	Web, Local GUI	
AI		
AI by Recorder	Face detection; face recognition; perimeter protection; SMD	
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); presenter protection; SAD: stores and vehicles around	
,	perimeter protection; SMD; stereo analysis; crowd distribution; people counting; ANPR; heat map	
AcuPick Al by Camera + Recorder	Max. 24-channel, 1 combined event per channel	
Perimeter Protection		
Perimeter Performance AI by Recorder (Number of	4 channels, 10 IVS rules for each channel	
Channels) Perimeter Performance of AI by Camera (Number of Channels) Face Detection	All channels (32 targets/s)	
Face Attributes	6 attributes	
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	
Face Detection Performance of AI by Camera (Number of Channels)	nce of Al by Number of 16 channels	
Face Recognition		
Face Database Capacity	Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G.	
Face Recognition Performance of AI by		
Recorder (Number of Channels)	2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s	
Face Recognition Performance of AI by	16 channels	
Camera (Number of Channels)		
SMD Plus		
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	
SMD Plus by Camera	lighting condition change All channels (64 targets/s)	
Video Metadata	an endmites (of targets/s)	
Metadata Performance of Al by Camera (Number of Channels)	8 channels	

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Backup Method	USB device and network				
Playback Mode	Instant playback; general playback; event playback; tag playback; smart playback				
Storage					
Disk Group	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, 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	6 channels (1-channel 12 V 1 A output)				
Disk Interface	4 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	1 (half-duplex serial communication)				
USB	3 (1 front USB 2.0 port, 2 rear USB 3.0 ports)				
HDMI	2				
VGA	2				
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)				
PoE Port	24 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE				
General					
Power Supply	100–240 VAC, 50/60 Hz				
Power Consumption	<13 W (without HDD) Total output power of PoE is 210 W, the maximum output power of a single port is 25.5 W				
Net Weight	4.63 kg (10.21 lb)				
Gross Weight	6.78 kg (14.95 lb)				
Product Dimensions	440.0 mm × 415.6 mm x 76.0 mm (17.32" × 16.36" × 2.99") (W ×D × H)				
Packaging Dimensions	529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 8.31") (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
NETWORK VIDEO RECORDER	DHI-NVR5424-24P-EI	24CH 1.5U 24POE 4HDDs WizSense Network Video Recorder

Dimensions (mm[inch])



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Panels



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