



DHI-NVR5832-EI

Dahua 32CH 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.

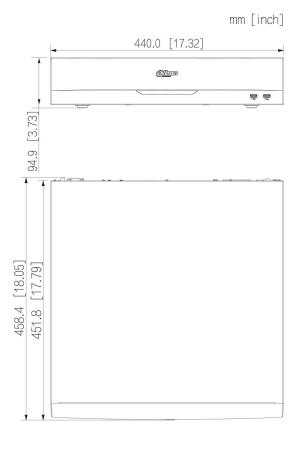
Technical Specification		Video Metadata		
System		Metadata Performance of Al by Camera (Number of	8 channels	
Main Processor	Industrial-grade processor	Channels)	8 channels	
Operating System	Embedded Linux	Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	
Operating Interface	Web, Local GUI		License plate, plate color, vehicle body, vehicle model,	
Al		Motor Vehicle Attributes	vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.	
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus	Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	
	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map	Vehicle License Plate Comparison		
Al by Camera		ANPR by Camera (Number of Channels)	All channels (8 targets/s)	
AcuPick AI by Camera + Recorder	Max. 32-channel, 1 combined event per channel/s	License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist	
Perimeter Protection		Audio and Video	Audio and Video	
Perimeter Performance Al		Access Channel	32 channels	
by Recorder (Number of Channels) Perimeter Performance of	4 channels, 10 IVS rules for each channel	Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing	
Al by Camera (Number of Channels)	All channels (16 targets/s)	Resolution	32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF	
Face Detection			AI disabled: 2-channel 32 MP@25 fps; 2-channel 24	
Face Attributes Face Detection Performance of Al by Recorder (Number of	Gender; age group; glasses; expressions; face mask; beard 2 channels (up to 12 face images/s each channel)	Decoding Capability	MP@25 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 10-channel 6 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps Al enabled: 1-channel 32 MP@25 fps; 1-channel 24 MP@25 fps; 2-channel 16 MP@30 fps; 4-channel 12	
Channels) Face Detection Performance of Al by Camera (Number of	16 channels		MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps 2 VGA, 2 HDMI	
Channels)			VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×	
Face Recognition		Video Output	720 Heterogeneous video source output for HDMI1 and	
Face Database Capacity	Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.		HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2	
Face Recognition Performance of AI by	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s	Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16	
Recorder (Number of Channels)	2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	
Face Recognition		Compression Standard		
Performance of AI by Camera (Number of	16 channels	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Channels)		Audio Compression	G.711a; G.711u; PCM; G726	
SMD Plus		Network		
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; UDP; NTP; DHCP; DNS; SMTP; UPnP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI	
SMD Plus by Camera	All channels (32 targets/s)	Mobile Phone Access	iOS; Android	
		Interoperability	ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK	

Browser	Chrome; IE; Safari; Edge; 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	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; thermal alarm
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception
Intelligent Alarm	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
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)
HDMI	2
VGA	2
Network Port	2 (10/100/1000 Mbps Ethernet port, RJ-45)
General	
Power Supply	100–240 VAC, 50-60 Hz
Power Consumption	Total output of NVR is ≤ 13 W (without HDD)
Net Weight	6.40 kg (14.11 lb)

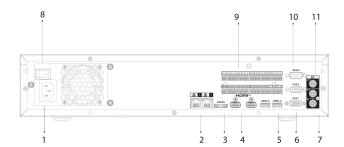
Gross Weight	9.01 kg (19.86 lb)	
Product Dimensions	439.9 mm × 457.9 mm x 89.0 mm (17.32" × 18.03" × 3.50") (W ×D × H)	
Packaging Dimensions	570.0 mm \times 570.0 mm x 226.0 mm (22.44" \times 22.44" \times 8.90") (W \times D \times H)	
Operating Temperature	-10 °C to +55 °C (14 °F to +131 °F)	
Storage 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-NVR5832-EI	Dahua 32CH 8HDD 2U NETWORK VIDEO RECORDER			

Dimensions (mm[inch])



Panels



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