

# DHI-NVR5832-EI

### 32 Channels 2U 8HDD 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 front-end and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

#### **Perimeter Protection**

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to perform secondary recognition for the targets. Improving alarm accuracy.

#### 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.

#### · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.

- $\cdot$  Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · Support AcuPick with Max. 16-Channel.
- · Support N+M cluster.
- · Support Raid0/1/5/6/10.
- Al by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.

· Security baseline 2.3.



#### **Face Recognition**

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

#### 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		Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.
System		Vehicle License Plate Comparison	
Main Processor	Industrial-grade processor	ANPR by Camera (Number	8 channels
Operating System	Embedded Linux	of Channels)	o channels
Operating Interface	Web, Local GUI	License Plate Database Capacity	<ol> <li>Create up to 20,000 plate numbers.</li> <li>Blocklist and allowlist</li> </ol>
AI		Audio and Video	
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus		22
AI by Camera	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	Access Channel	32 Al disabled: 384 Mbps incoming, 384 Mbps recording
		Network Bandwidth	and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording an 200 Mbps outgoing
AcuPick Al by Camera + Recorder	Max. 16-channel, 1 combined event per channel/s	Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF
Perimeter Protection			Al disabled: 2-channel 32 MP@20 fps; 2-channel 24 MP@20 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 Al enabled: 1-channel 32 MP@20 fps; 1-channel 24 MP@20 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 8 MP@30 fps; 8-channel 5 MP@30 fps; 12-channel 4 MP@30 fps; 24-channel 1080p@30 fps
Perimeter Performance Al by Recorder (Number of Channels) Perimeter Performance of	4 channels, 10 IVS rules for each channel	Decoding Capability	
Al by Camera (Number of Channels)	16 channels		
Face Detection	ace Detection		2 VGA, 2 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Video Output	HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Simultaneous video source output for VGA1 and HDMI1
Face Detection Performance of AI by			Simultaneous video source output for VGA2 and HDMI2
Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16
Face Detection Performance of AI by Camera (Number of	16 channels	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung
		Compression Standard	
Channels) Face Recognition		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Ū.	Up to 20 face databases with 20,000 images, with a	Audio Compression	G.711a; G.711u; PCM; G726
Face Database Capacity	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.	Network	
Face Recognition Performance of AI by Recorder (Number of	1. 16-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2. 2-channe FD (by recorder) + FR (by recorder), video	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP DNS; SMTP; UPnP; IP Filter; PPPOE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI
Channels)	stream: 12 face images/s	Mobile Phone Access	iOS; Android
Face Recognition		Interoperability	ONVIF 22.06 (Profile T; Profile S; Profile G); CGI; SDK
Performance of AI by Camera (Number of Channels)	16 channels	Browser	Chrome;IE;Safari;Edge;Firefox
SMD Plus		Network Mode	Multi-address mode, load balance, fault tolerance and other network port binding modes
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and	Recording Playback	
	lighting condition change	Multi-channel Playback	Up to 16 channels
SMD Plus by Camera	16 channels	Record Mode	General, motion detection; intelligent; alarm; POS
Video Metadata		Backup Method	USB device and network
Metadata Performance of Al by Camera (Number of Channels)	8 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	Storage	
Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.	Disk Group	Yes
		RAID	RAID 0/1/5/6/10

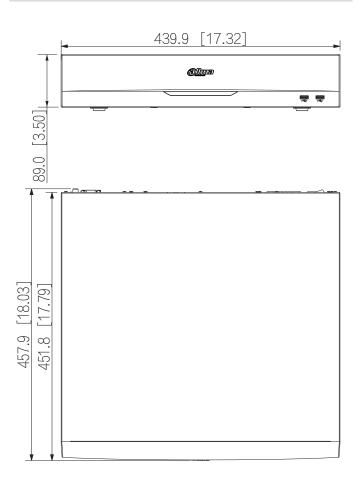
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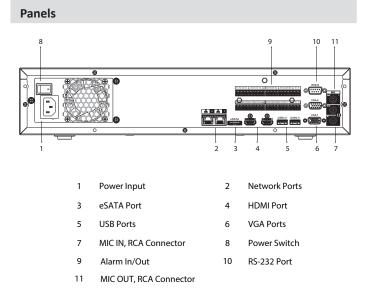
Alarm					
General Alarm	Motion detection; privacy masking; local alarm				
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception				
Intelligent Alarm	Face detection; perimeter protection; face recognition; video 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)				
HDD Interface	8 SATA ports, each disk can contain up to 16 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 $\leq$ 13 W (without HDD)				
Net Weight	6.4 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 × 570.0 mm x 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)				
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
32 Channels WizSense NVR	DHI-NVR5832-EI	32 Channels 2U 8HDDs WizSense Network Video Recorder

#### Dimensions (mm[inch])





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