



# 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.

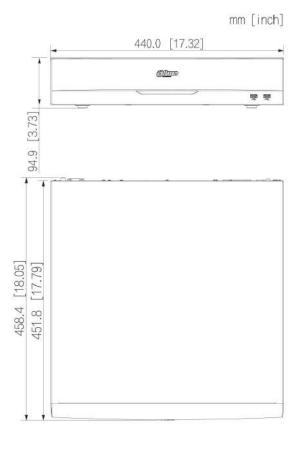
Metadata Performance of All Channels   Metadata Performance of All Performa	Technical Specification		Video Metadata	Video Metadata	
Main Processor   Indistribulgands processor   Emercical Univo.   Eme	•			8 channels	
Operating Infraface Web Joseph GUI Al  File desertory face recognition, permisses from the Mile Markey Recorder  File desertory face desertory face recognition, permisses protection, 500 Files, 300		Industrial-grade processor		8 channels	
All by Recorder  All by Recorder  All by Gamera  All by Camera  Al	Operating System	Embedded Linux	Human Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	
Page Detection   Page detection, face recognition, perimeter protection; All by Camera   Page detection, face recognition, perimeter protection; perimeter protection, and p	Operating Interface	Web, Local GUI		License plate, plate color, vehicle body, vehicle model,	
Mon-motor Whitches   Non-motor Whitches   Non-mot	Al		Motor Vehicle Attributes		
Mary Camera   Purmary motor whickes, and non-motor whickes, per protection, SMD Pugs serio analysis, steep a	Al by Recorder				
Accuracy   American (Number of Channels)   Control (Name of Channels)   All channels (8 targets/s)   All channels (10 NS rules for each channel)   All channels (10 NS rules for each channel (10 NS rules for each channel)   All channels (10 NS rules for each channel (10 NS rules fo		(human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density;	Vehicle License Plate Comparison		
Recorder  Record	Al by Camera			All channels (8 targets/s)	
Perimeter Performance Al by Recorder (Number of Channels)  Perimeter Performance of Al Lisabeled: 384 Mbps incoming, 384 Mbps recording and 386 Mbps outgoing and 386 Mbps outgoing and 386 Mbps outgoing and 380 Mbps outgo	,	Max. 32-channel, 1 combined event per channel/s		· · · · · · · · · · · · · · · · · · ·	
by Recorder (Number of Channels)  A channels, 10 NS rules for each channel  All channels (10 NS rules for each channel)  All channels (10 NS rules for each channel)  Decoding Capability  All channels 20 NS pS channels 10 NS pS rules for pS pS pS rules for pS pS rules for pS pS rules for pS pS pS rules for pS pS rules for pS pS pS pS rules for pS rules for pS	Perimeter Protection		Audio and Video	Audio and Video	
Channels)  Perimeter Performance of Alby Camera (Number of Channels)  Face Detection  Face Attributes  Gender; age group; glasses; expressions; face mask; beard  Decoding Capability  All channels (16 targets/6)  Face Detection  Face Recognition  Face Recogniti			Access Channel	32 channels	
Face Detection Face Attributes Gender; age group; glasses, expressions; face mask; beard Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Performance of Al by Camera (Number of Channels) Face Detection Face Detection Performance of Al by Camera (Number of Channels) Face Recognition Face Detection Face Detection Face Detection Face Detection Performance of Al by Camera (Number of Channels) Face Detection Face Detection Face Detection Face Detection Face Detection Performance of Al by Camera (Number of Channels) Face Detection Face Detec	Channels)  Perimeter Performance of		Network Bandwidth	and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording	
Face Attributes Gender; age group; glasses; expressions; face mask; beard  A disabled: 2 channel 32 MP@25 fps; 2-channel 24 MP@25 fps; 4-channel 16 MP@30 fps; 10-channel 6 MP@30 fps; 2-channel 15 MP@30 fps; 10-channel 6 MP@30 fps; 2-channel 15 MP@30 fps; 10-channel 6 MP@30 fps; 2-channel 15 MP@30 fps; 2-channel 16 MP@30 fps; 2-channel 16 MP@30 fps; 2-channel 18 MP	Channels)	All channels (16 targets/s)	Resolution		
Face Detection Performance of Al by Recorder (Number of Channels)  16 channels  16 channels  17	Face Detection			Al disabled: 2-channel 32 MP@25 fps; 2-channel 24	
MP@35 fps; 2-channel 15 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 12 MP@30 fps; 4-channel 5 MP@30 fps; 4-channel 5 MP@30 fps; 4-channel 6 MP@30 fps; 4-cha	Face Detection	beard	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 MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 6 MP@30 fps; 8-channel 4	
Camera (Number of Channels 16 channels 2 VGA, 2 HDMI VGA:1920 x 1080, 1280 x 1024, 1280 x 720 HDMI:3840 x 2160, 1920 x 1080, 1280 x 1024, 1280 x 720 Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI2 Simultaneous video source output for VGA2 and HDMI2 Simultaneous video sour	Channels) Face Detection	2 channels (up to 12 face images)s each channely			
Face Recognition  Up to 20 face databases with 20,000 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential type	Camera (Number of	16 channels			
Face Database Capacity  Face Recognition Performance of Al by Recorder (Number of Channels) Face Recognition Performance of Al by Camera (Number of Channels)  SMD Plus  8 Channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  Multi-screen Display  Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16  Multi-screen Display  Main screen: 1/4/8/9/16  Multi-screen Display  Main screen: 1/4/8/9/16  Multi-screen: 1/4/8/9/	Face Recognition		Video Output		
Pace Recognition Performance of Al by Recorder (Number of Channels)  1. 16-channel FD (by camera) + FR (by recorder), image Stream: 16 face images/s  Third-party Camera Access Third-party Camera Access Convir (Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha  Compression Standard  Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG Audio Compression  SMD Plus  SMD Plus  Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  All channels (32 targets/s)  Mobile Phone Access  Multi-screen Display Sub screen: 1/4/8/9/16  Shuff; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha  Compression Standard  Video Compression Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  Audio Compression G.711a; G.711u; PCM; G726  Network  Network  Network  Network  Network Protocol  Mobile Phone Access  iOS; Android	Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and	video Output	-	
Recorder (Number of Channels)  2. 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s  Face Recognition Performance of Al by Camera (Number of Channels)  16 channels  16 channels  18 Channels  19 Compression Standard  Video Compression  19 Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  Audio Compression  10 Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  Audio Compression  10 Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  Audio Compression  10 Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  Audio Compression  Network  Network  Network  Network  Network Protocol  All channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change  SMD Plus by Camera  All channels (32 targets/s)  Mobile Phone Access  IOS; Android	-		Multi-screen Display		
Performance of AI by Camera (Number of Channels)  16 channels  16 channels  16 channels  16 channels  Network  SMD Plus  SMD Plus by Recorder  SMD Plus by Recorder  SMD Plus by Camera  All channels (32 targets/s)  Network  Video Compression  Audio Compression  Network  Network  Network  Network  Network  Network Protocol  Mobile Phone Access  iOS; Android	,		Third-party Camera Access		
Camera (Number of Channels)  SMD Plus  SMD Plus  SMD Plus by Recorder  SMD Plus by Recorder  SMD Plus by Camera  All channels (32 targets/s)  Video Compression  Audio Compression  Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  Audio Compression  Smart H.265+; H.265; Smart H.264+; H.264; MJPEG  G.711a; G.711u; PCM; G726  Network  Network  Network  Network Protocol  Mobile Phone Access  iOS; Android	-		Compression Standar	rd	
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  All channels (32 targets/s)  Network  Network Protocol  Network Protocol  Mobile Phone Access  G.711a; G.711d; PCM; G728  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  Mobile Phone Access  iOS; Android		16 channels	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
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  Negistration; iSCSI  Mobile Phone Access  iOS; Android	Channels)		Audio Compression	G.711a; G.711u; PCM; G726	
SMD Plus by Recorder vehicle, reducing false alarms caused by leaves, rain and lighting condition change  Network Protocol  Negistration; iSCSI  Mobile Phone Access  iOS; Android	SMD Plus		Network	Network	
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	
Interoperability ONVIF 23.12(Profile T; Profile S; Profile G); CGI; SDK	SIVID FIUS BY CAITIEFA	All challiners (52 targets/s)	Mobile Phone Access		
			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)				

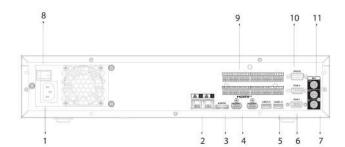
Gross Weight	9.01 kg (19.86 lb)	
Product Dimensions	439.9 mm $\times$ 457.9 mm $\times$ 89.0 mm (17.32" $\times$ 18.03" $\times$ 3.50") (W $\times$ D $\times$ H)	
Packaging Dimensions	570.0 mm $\times$ 570.0 mm x 226.0 mm (22.44" $\times$ 22.44" $\times$ 8.90") (W ×D × H)	
Operating Temperature	-10 °C 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	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