



DHI-NVR5832-16P-AI/ANZ

32 Channels 2U 16PoE 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-AI/ANZ 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

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.

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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- · 32-channel 1080p self-adaptive decoding capability.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · 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.



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			
System			
Main Processor	Industrial-grade processor		
Operating System	Embedded Linux		
Operating Interface	Web, Local GUI		
Al			
Al by Recorder	Face detection; face recognition; perimeter protection; SMD Plus		
Al 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		
Perimeter Protection			
Perimeter Performance AI by Recorder (Number of Channels)	4 channels, 10 IVS rules for each channel		
Perimeter Performance of Al by Camera (Number of Channels)	16 channels		
Face Detection			
Face Attributes	Gender; age group; glasses; expressions; face mask; beard		
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)		
Face Detection Performance of Al by Camera (Number of Channels)	16 channels		
Face Recognition			
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.		
Face Recognition Performance of Al by Recorder (Number of Channels)	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 stream: 12 face images/s		
Face Recognition Performance of Al by Camera (Number of Channels)	16 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	16 channels		
Video Metadata			
Metadata Performance of Al by Camera (Number of Channels)	8 channels		
Human Attributes	Top color, top type, bottom color, bottom type, hat, bag age, gender and umbrella		
Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.		
Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helme		

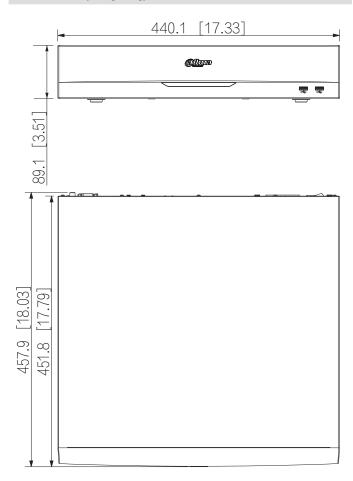
Vehicle License Plate Comparison				
ANPR by Camera (Number of Channels)	8 channels			
License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist			
Audio and Video				
Access Channel	32			
Network Bandwidth	Al disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing			
Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF			
Decoding Capability	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			
Video Output	2-channel VGA, 2-channel HDMI video output. Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 Supports 4K display			
Multi-screen Display	Main screen: 1/4/8/9/16/25/36 Sub screen: 1/4/8/9/16			
Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung			
Compression Standar	rd			
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG			
Audio Compression	G.711a; G.711u; PCM; G726			
Network				
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; RTSP; 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			
Mobile Phone Access	iOS; Android			
Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK			
Browser	Chrome IE 9 or later Firefox			
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			



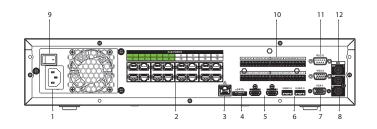
Alarm		
General Alarm	Motion detection; privacy masking; local alarm	
Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception	
Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (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	8SATA ports, up to 16 TB.The maximum HDD capacity varies with 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)	
PoE Port	16 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	Total output of NVR is \leq 13 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5 W	
Net Weight	6.90 kg (15.21 lb)	
Gross Weight	9.49 kg (20.92 lb)	
Product Dimensions	440.1 mm \times 457.9 mm \times 89.1 mm (17.32" \times 18.03" \times 3.51") (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 \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)	

Ordering Information				
Туре	Model	Description		
32 Channels WizSense NVR	DHI-NVR5832- 16P-AI/ANZ	32 Channels 2U 16PoE 8HDD WizSense Network Video Recorder		

Dimensions (mm[inch])



Panels



- HDMI Ports

- FCC: 47 CFR FCC Part15, SubpartB, Class A CE-EMC: EN 55032:2015+A1:2020; EN IEC 61000-3-
- USB Ports

2:2019+A1:2021; EN 61000-3-3:2013+A1:2019+A2:2021; EN 55035:2017+A11:2020; EN 50130-4:2011+A1:2014

- VGA Ports
- MIC IN, RCA Connector

Certifications

Rack or desktop

CE-LVD: EN 62368-1:2014

- Power Switch RS-232 Port
- 10 Alarm In/Out 12 MIC OUT, RCA Connector

Rev 002.000

Installation

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