



# DHI-NVR5832-16P-EI2

## 32CH 2U 16PoE 8HDDs WizSense 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-EI2 delivers superior performance and advanced recording technology for IP surveillance systems. Featuring a powerful processor with high-speed data processing and robust decoding capabilities, it ensures smooth video streaming. The device incorporates an intuitive modular GUI NVR NEXT that simplifies workflows and enhances operational efficiency. Equipped with an integrated AI chip and Dahua's deep learning algorithms, it enables precise detection, efficient analytics, and reduced false alarms. Its AcuPick technology provides industry-leading one-click accuracy search. Supporting seamless integration with third-party devices and Video Management Software (VMS), the NVR5000-EI2 offers a versatile and scalable surveillance solution.

## 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.

- Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.
- Max. decoding capability: 40 × 1080p@30 fps or 10 × 8MP@30 fps.
- Max. 448/448/448 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- · Supports 8K HDMI output.
- Provides access to remote storage devices via iSCSI to expand storage capacity.
- Al by Recorder supports 4-channel face detection and recognition, up to 20 face databases and 30,000 face images; 4-channel video metadata; 8-channel perimeter protection; 16-channel SMD Plus; 4-channel AcuPick.
- Al by Camera supports face detection and recognition, perimeter protection, SMD, metadata, AcuPick, ANPR, stereo analysis, heat map, people counting, PPE detection, smart object detection and smart sound detection.
- · Supports EPTZ, and one-click arming and disarming.



#### **NVR NEXT**

With its enhanced system, the NVR introduces NVR NEXT, a user-friendly GUI featuring a modular design to improve operation efficiency and streamline workflows, catering to the needs of small and medium-sized businesses.

#### Al Features

Embedded with deep-learning algorithms, the NVR offers advanced AI capabilities, delivering precise detection, efficient analytics, and reduced false alarms.

#### PPE Detection by Camera

With the PPE Detection function, the camera can detect attributes including face masks, helmets, glasses, safety vests, and the color of tops and bottoms, and determine whether PPE requirements are met. PPE compliance or non-compliance alarms can be triggered according to the alarm settings.

All by Camera distributions, people counting, ANPR, vehicle density, heat map, PPG detection, smart object detection, smart sound detection, AcuPick Performance of Al by Recorder (1080P) (Number of Channels)  AcuPick Performance of Al by Camera (Number of Channels)  AcuPick Performance of Al by Camera (1080P) (Number of Channels)  AcuPick Performance of Al by Camera (1080P) (Number of Channels)  Perimeter Protection  Perimeter Performance All by Camera (1080P)  All channels, 10 INS rules for each channel  All channels, 10 INS rules for each channel  All channels (32 targets/s)  All channels (44 Mbps orugioning and 448 Mbp	Technical Specification		SMD	SMD	
Main Primaters   Milester   Mil	System		SMD Plus by Recorder	vehicle , reducing false alarms caused by leaves, rain	
Dipersing inferface  Web, Local GUI  Al  Socied descriptor, fair mongatives, within metadata, feed manufactures, fair mongatives, within metadata, flowers, months of metadata, flowers, fair mongatives, within metadata, flowers, fair months of the fair metadata, flowers, fair mongatives, fair money fair, fair mongatives, fair money fair, fair money, fair, fair, gargered and underly, which interfair, which descripts, manufactures, fair, fair, fair, fair, fair, gargered and underly, which interfair, was agreed and which which interfairs, which interfair, which interfairs, which interfairs, which interfairs		ů .	SMD by Camera		
Al Metadata Performance of Al by Recorder (Number of Chamnels)  Al Dy Recorder (Number of Chamnels)  Al Dy Recorder (Number of Chamnels)  All phase detections; beer recognition; video metadata (Dumans, motor vehicles, and non-motor vehicles); perimeter protections (SMR) by Recorder (Number of Chamnels)  All perimeter protections (SMR) by Recorder (Number of Chamnels)  All perimeter protections (SMR) by Recorder (Number of Chamnels)  All perimeter perimeters (Number of Chamnels)  All channels (12 targets/s)  All channels (13 targets/s)  All channels (15 targets/s)  All channels (Number of Chamnels)  All channels (Number of Chamnels)  All channels (15 targets/s)  All channels (Number of Chamnels)  All channels (15 targets/s)  All channels (1	Operating System	Embedded Linux			
All by Recorder (Number of Channels)  All by Recorder (Number of Channels)  Face detection, face recognition, video metadata (Channels)  Face detection, face recognition, video metadata (Channels)  Face detection, face recognition, video metadata (Channels)  All by Camera (Number of Channels)  All by Camera (Number of Channels)  Face Detection  Face Attributes  Face Recognition  Face Rec	Operating Interface	Web, Local GUI			
All by Camera (Number of Channels)  Perimeter protection, AMPR; SMD Plus, Aculfick and non-motor vehicles, and intrinsic prespic curuling. AMPR; vehicle density, menting, Performance of ALI by Camera (Number of Channels)  AculPick Performance of ALI by Camera (LISSPP)  Non-motor Vehicle Attributes  AculPick Performance of ALI by Camera (LISSPP)  Max. 32-channel, 1 combined event per channel/s  (Number of Channels)  Perimeter Protection  Perimeter Performance of ALI by Camera (Number of Channels)  ALI channels (8 targets/s)  All disabled 4 46 Mays incoming, 448 May	Al			4 channels, 22 attributes extraction.	
https://www.netor.cepides, and non-motor webides), periodency should, separate protections, SML periodency protection, SML periodency in periodency should protect make the protection of state and part sound detections, people counting, AMPK, whelle density, hour image PE detections year and logical detections and state and be a continged. AMPK whelle density, hour may perform and a state and be a continged. AMPK whelle density, hour may perform and a state and be a continged. AMPK whelle density, which is not a continged. AMPK whelle density, which is not a continged. AMPK whelle density, which is not a continged. AMPK whelled and state and be a continged. AMPK whelled and state and be a dead to each face image. AMPK whelled and state and be added to each face image. Amplitudes are stronged in the performance of all by came of All by and a continged and and and and and and and and and an	Al by Recorder	(human, motor vehicles, and non-motor vehicles); perimeter protection; ANPR; SMD Plus; AcuPick	Metadata Performance of Al by Camera (Number of	All channels (16 targets/s)	
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Non-motor Vehicle   Non-motor Vehicle   Non-motor Vehicle model, whicle collor, number of persons, helmet Attributes   Vehicle model, whicle collor, number of persons, helmet Attributes   Vehicle License Plate Comparison	AcuPick Performance of		Motor Vehicle Attributes	vehicle logo, calling, seatbelt, vehicle interior, vehicle	
All channels (8 targets/s)  Perimeter Protection  Audio and Video	, , , ,	4 channels		Vehicle model, vehicle color, number of persons, helmet	
Number of Channels   Perimeter Protection		Max. 32-channel. 1 combined event per channel/s	Vehicle License Plate	Vehicle License Plate Comparison	
Perimeter Performance AI by Recorder (Number of Channels)  Be channels, 10 IVS rules for each channel  Be channels, 10 IVS rules for each channel  Audio and Video  Access Channel  Access Channel  Access Channel  Access Channel  Access Channel  Access Channel  All channels (32 targets/s)  All channels (32 targets/s)  Channels)  Face Detection  Face Attributes  Gender, age group; glasses; expressions; face mask; beard  Beard access Channel  Access Channel  Gender, age group; glasses; expressions; face mask; beard  Access Channel  Access Channel  Resolution  32 MP;24 MP;16 MP;12 MP;8 MP;6 MP;10 M	(Number of Channels)	, , , , , , , , , , , , , , , , , , , ,		All channels (8 targets/s)	
Channels)  Perimeter Performance of Al by Camera (Number of Channels)  All channels (32 targets/s)  All channels (32 targets/s)  All channels (32 targets/s)  All channels (32 targets/s)  Face Detection  Face Attributes  Gender; age group; glasses; expressions; face mask; beard  Face Detection  Recorder (Number of Channels)  All channels (up to 12 face images/s each channel)  Face Detection  Face Pace Detection  Face Detection  Face Pace Detection  Face Pace	Perimeter Performance Al	2   1   12   12   1   1   1   1   1   1			
All channels (32 targets/s) Channels) All channels (32 targets/s) Channels) All channels (32 targets/s) All channe		8 channels, 10 IVS rules for each channel	Audio and Video	Audio and Video	
Face Detection  Face Attributes  Gender; age group; glasses; expressions; face mask; beard  All channels (up to 12 face images/s each channel)  Recorder (Number of Channels)  Face Detection  Performance of Al by Camera (Number of Channels)  All channels (32 targets/s)  All channels (32 targets/s)  All channels (32 targets/s)  Decoding Capability  Performance of Al by Camera (Number of Channel and Page 30 fps; 32-channel 12 MP@30 fps; 10-channel 8 MP@30 fps; 10-cha		48.4	Access Channel	32 channels	
Face Detection  Face Attributes  Gender; age group; glasses; expressions; face mask; beard  Gender; age group; glasses; expressions; face mask; beard  Face Detection  Performance of Al by All channels (up to 12 face images/s each channel)  Face Detection  Performance of Al by All channels (32 targets/s)  Performance of Al by All channels (32 targets/s)  Up to 20 face databases with 30,000 images, with a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No, countries & regions and state can be added to each face image.  Face Recognition  L. 24-channel ED (by camera) + FR (by recorder), image Performance of Al by Recorder (Number of Channels)  Face Recognition  L. 24-channel FD (by recorder) + FR (by recorder), video Stream: 24 face images/s  Face Recognition  Performance of Al by Recorder (Number of Channels)  All channels (32 targets/s)  All channels (32 targets/s)		All Chalmers (32 targets/s)			
Face Detection Performance of Al by Recorder (Number of Channels)  All channels (32 targets/s)  All channels (32 targets/s)  Up to 20 face databases with 30,000 images, with a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.  Face Recognition  Up to 20 face databases with 30,000 images, with a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.  Face Recognition  All channels (32 targets/s)  Up to 20 face databases with 30,000 images, with a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.  Face Recognition  1. 24-channel FD (by camera) + FR (by recorder), image performance of Al by Secondary (Number of Channels)  Recorder (Number of Channels)  All channels (32 targets/s)  Al	Face Detection		Network Bandwidth	Al enabled: 200 Mbps incoming, 200 Mbps recording	
Performance of Al by Recorder (Number of Channels)  A disabled: 2-channel 32 MP@25 fps; 2-channel 12 MP@30 fps; 15-channel 16 MP@30 fps; 5-channel 16 MP@30 fps; 15-channel 4 MP@30 fps; 15-channel 5 MP@30 fps; 15-channel 4 MP@30 fps; 15-channel 1080p@30 fps Al enabled: 1-channel 32 MP@25 fps; 2-channel 12 MP@30 fps; 15-channel 12 MP@30 fps; 15-channel 12 MP@30 fps; 15-channel 12 MP@30 fps; 15-channel 15 MP@30 fps; 15-channel 16 MP@30 fps; 15-c			Resolution		
Performance of Al by Camera (Number of Channels)  Face Recognition  Up to 20 face databases with 30,000 images, with a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential typ	Performance of AI by Recorder (Number of Channels)	4 channels (up to 12 face images/s each channel)		MP@25 fps; 5-channel 16 MP@30 fps; 6-channel 12 MP@30 fps; 10-channel 8 MP@30 fps; 13-channel 6 MP@30 fps; 16-channel 5 MP@30 fps; 20-channel 4 MP@30 fps; 32-channel 1080p@30 fps Al enabled: 1-channel 32 MP@25 fps; 2-channel 24 MP@25 fps; 4-channel 16 MP@30 fps; 5-channel 12 MP@30 fps; 8-channel 8 MP@30 fps; 10-channel 6	
Face Database Capacity  Up to 20 face databases with 30,000 images, with a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.  Face Recognition  Face Recognition  1. 24-channel FD (by camera) + FR (by recorder), image Performance of Al by Stream: 24 face images/s Channels)  Face Recognition  Face Recognition  All channels (32 targets/s)  All channels (32 targets/s)  Third-party Camera Access  Third-party Camera Access  A Video Output  Vide	Performance of AI by Camera (Number of	All channels (32 targets/s)	Decoding Capability		
Face Database Capacity  a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.  Video Output  V	Face Recognition			MP@30 fps; 32-channel 1080p@30 fps	
Face Recognition 1. 24-channel FD (by camera) + FR (by recorder), image Performance of Al by Recorder (Number of Channels) 2. 4-channe FD (by recorder) + FR (by recorder), video Stream: 24 face images/s 2. 4-channe FD (by recorder) + FR (by recorder), video Stream: 24 face images/s  All channels (32 targets/s) Camera (Number of Channels)  HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2 Simultaneous video source output fo	Face Database Capacity	a total capacity of 3.75 GB. Name, gender, birthday, address, credential type, credential No., countries &	Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 7680×4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	
Face Recognition Performance of Al by Camera (Number of Channels)  Multi-screen Display Main Screen: 1/4/8/9/16/25/36 Sub Screen: 1/4/8/9/16  ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	Performance of AI by Recorder (Number of	stream: 24 face images/s 2. 4-channe FD (by recorder) + FR (by recorder), video		HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2	
Camera (Number of Channels)  All channels (32 targets/s)  Third-party Camera Access  Hanwha	Face Recognition		Multi-screen Display		
	Camera (Number of	All channels (32 targets/s)	Third-party Camera Access		
			Compression Standa	Compression Standard	

Video Compression

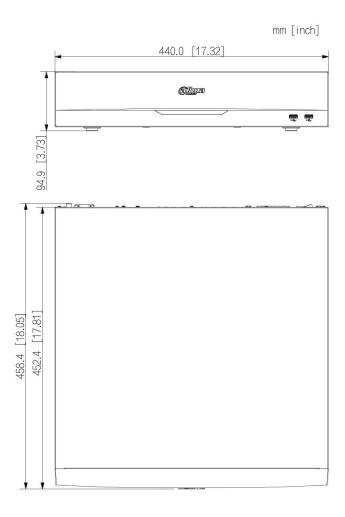
Smart H.265+; H.265; Smart H.264+; H.264; MJPEG

Audio Compression	G.711a; G.711u; PCM; G726
Network	
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; FTP; SFTP; DHCP; DNS; SMTP; UPnP; DDNS; SNMP; Alarm Server; IP Search (Supports IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; iSCSI
Mobile Phone Access	iOS; Android
Interoperability	ONVIF 24.12(Profile T; Profile S; Profile G; Profile M); CGI; SDK
Browser	Chrome; IE; Safari; Edge; 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, target Video, video clip, 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; PPE detection; smart object detection; smart sound detection
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; 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 20TB. This limit varies depending on the environment temperature.
eSATA	1
RS-232	1
RS-485	1
RS-422	1
USB	4 (2 front USB 2.0 port, 2 rear USB 3.0 port)
HDMI	2

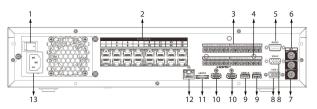
VGA	2		
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)		
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE		
General			
Power Supply	100–240 VAC, 50/60 Hz		
Power Consumption	Total output of NVR is $\leq$ 13 W (without HDD) Total output power of PoE is 150 W, the maximum output power of a single port is 25.5 W		
Net Weight	6.63 kg (14.62 lb)		
Gross Weight	9.22 kg (20.33 lb)		
Product Dimensions	440.0 mm × 458.4 mm × 94.9 mm (17.32" × 18.05" × 3.73") (W × D × H)		
Packaging Dimensions	570.0 mm × 570.0 mm × 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), non-condensing		
Certifications	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-NVR5832-16P-EI2	32CH 2U 16PoE 8HDDs WizSense Network Video Recorder			

## Dimensions (mm[inch])



### **Panels**



- 1 Power Switch
- 3 Alarm In/Out
- 5 RS-232 Port
- 7 AUDIO IN, RCA Connector
- 9 USB 3.0 Port
- 11 eSATA Port
- 13 Power Input

- 2 PoE Ports
- 4 RS-485 Port
- 6 AUDIO OUT, RCA Connector
- 8 VGA Port
- 10 HDMI Port
- 12 Network Port