

DHI-NVR5432-16HP-EI2

32CH 1.5U 16PoE 4HDDs 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.

Technical Specificatio	n	SM
System		SM
Main Processor	Industrial-grade processor	
Operating System	Embedded Linux	SM
Operating Interface	Web, Local GUI	Vio
Al		Me Al b
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; AcuPick	Cha Me Al b
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map; PPE detection; smart object detection; smart sound detection; AcuPick	Cha Pec
AcuPick Performance of Al by Recorder (1080P) (Number of Channels)	4 channels	Nor Attı
AcuPick Performance of AI by Camera (1080P) (Number of Channels)	Max. 32-channel, 1 combined event per channel/s	Ve
Perimeter Protection		of C
Perimeter Performance AI by Recorder (Number of Channels)	8 channels, 10 IVS rules for each channel	Lice Cap Au
Perimeter Performance of AI by Camera (Number of Channels)	All channels (32 targets/s)	Acc
Face Detection		Net
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Res
Face Detection Performance of AI by Recorder (Number of Channels)	4 channels (up to 12 face images/s each channel)	
Face Detection Performance of AI by Camera (Number of Channels)	All channels (32 targets/s)	Dec
Face Recognition		
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.	Vid
Face Recognition Performance of AI by Recorder (Number of Channels)	1. 24-channel FD (by camera) + FR (by recorder), image stream: 24 face images/s 2. 4-channe FD (by recorder) + FR (by recorder), video stream: 24 face images/s	
Face Recognition Performance of AI by Camera (Number of	All channels (32 targets/s)	Mu
Channels)		

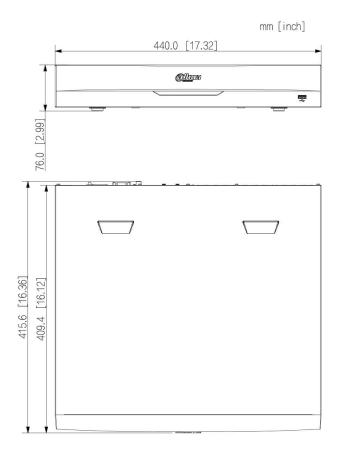
SMD				
SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change			
SMD by Camera	All channels (64 targets/s)			
Video Metadata				
Metadata Performance of Al by Recorder (Number of Channels)	4 channels, 22 attributes extraction.			
Metadata Performance of AI by Camera (Number of Channels)	All channels (16 targets/s)			
People 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, helmet			
Vehicle License Plate Comparison				
ANPR by Camera (Number of Channels)	All channels (8 targets/s)			
License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist			
Audio and Video				
Access Channel	32 channels			
Network Bandwidth	Al disabled: 448 Mbps incoming, 448 Mbps recording and 448 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;6 MP;5 MP;4 MP;3 MP;1080p;720p;960p;D1;CIF;QCIF			
Decoding Capability	Al disabled: 2-channel 32 MP@25 fps; 2-channel 24 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 MP@30 fps; 12-channel 5 MP@30 fps; 16-channel 4 MP@30 fps; 32-channel 1080p@30 fps			
Video Output	2 VGA, 2 HDMI VGA: 1920×1080 , 1280×1024 , 1280×720 HDMI: 7680×4320 , 3840×2160 , 1920×1080 , 1280×1024 , 1280×720 Heterogeneous video source output for HDMI1 and HDMI2 Simultaneous video source output for VGA1 and HDMI1 Simultaneous video source output for VGA2 and HDMI2			
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; 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 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
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	6 channels (1-channel 12 V 1 A output)
Disk Interface	4 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
USB	3 (1 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)

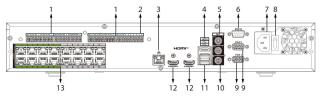
PoE Port	16 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE	
General		
Power Supply	100–240 VAC, 50/60 Hz	
Power Consumption	Total output of NVR is <13 W (without HDD) Total output power of PoE is 200 W, the maximum output power of a single port is 25.5 W $$	
Net Weight	4.56 kg (10.05 lb)	
Gross Weight	6.65 kg (14.66 lb)	
Product Dimensions	440.0 mm × 415.6 mm × 76.0 mm (17.32" × 16.36" × 2.99") (W × D × H)	
Packaging Dimensions	529.0 mm × 499.0 mm × 211.0 mm (20.83" × 19.65" × 8.31") (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-NVR5432-16HP-EI2	32CH 1.5U 16PoE 4HDDs WizSense Network Video Recorder		

Dimensions (mm[inch])



Panels



- 1 Alarm In/Out
- 2 RS-485 Port
- 3 Network Port
- 4 eSATA Ports
- 5 AUDIO OUT, RCA Connector
- 6 RS-232 Port
- 7 Power Input
- 8 Power Switch
- 9 VGA Port
- 10 AUDIO IN, RCA Connector
- 11 USB Ports
- 12 HDMI Port
- 13 PoE Ports