



DHI-NVR5232-16P-EI2

32CH 1U 16PoE 2HDDs 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 Specification		SMD	SMD	
System			16 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain	
Main Processor	Industrial-grade processor	CMD by Company	and lighting condition change	
Operating System	Embedded Linux	SMD by Camera	All channels (64 targets/s)	
Operating Interface	Web, Local GUI	Video Metadata		
Al	Face data street from the control of the control of	Metadata Performance of Al by Recorder (Number of Channels)	4 channels, 22 attributes extraction.	
Al by Recorder	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; AcuPick	Metadata Performance of Al by Camera (Number of	All channels (16 targets/s)	
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	Channels) People Attributes	Top color, top type, bottom color, bottom type, hat, bag, age, gender and umbrella	
AcuPick Performance of	sound detection; AcuPick	Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location	
Al by Recorder (1080P) (Number of Channels)	4 channels	Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet	
AcuPick Performance of Al by Camera (1080P)	Max. 32-channel, 1 combined event per channel/s	Vehicle License Plate	Vehicle License Plate Comparison	
(Number of Channels)	wax. 32 channel, 1 combined event per channely3	ANPR by Camera (Number of Channels)	All channels (8 targets/s)	
Perimeter Protection Perimeter Performance Al		License Plate Database	1. Create up to 20,000 plate numbers.	
by Recorder (Number of Channels)	8 channels, 10 IVS rules for each channel	Capacity Audio and Video	Capacity 2. Blocklist and allowlist Audio and Video	
Perimeter Performance of		Access Channel	32 channels	
Al by Camera (Number of Channels)	All channels (32 targets/s)	Access Chainlei	Al disabled: 448 Mbps incoming, 448 Mbps recording and 448 Mbps outgoing	
Face Detection		Network Bandwidth	Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	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	
Face Detection Performance of AI by Recorder (Number of Channels)	4 channels (up to 12 face images/s each channel)		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	
Face Detection Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)	Decoding Capability		
Face Recognition			MP@30 fps; 32-channel 1080p@30 fps	
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.	Video Output	1 VGA, 1 HDMI VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 7680×4320, 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI and VGA	
Face Recognition Performance of AI by Recorder (Number of	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	Multi-screen Display	Main Screen: 1/4/8/9/16/25/36 Sub Screen: 1/4/8/9/16	
Channels) Face Recognition	stream: 24 face images/s	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Hanwha	
Performance of Al by Camera (Number of Channels)	All channels (32 targets/s)	Compression Standar	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	1-channel RCA	
Alarm Input	4 channels	
Alarm Output	2 channels	
Disk Interface	2 SATA ports, each disk can contain up to 20TB. This limit varies depending on the environment temperature.	
RS-232	1	
RS-485	1	
USB	2 (1 front USB 2.0 port, 1 rear USB 3.0 port)	
HDMI	1	
VGA	1	
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	

	Power Supply	100–240 VAC, 50/60 Hz	
	Power Consumption	Total output of NVR is \leq 10 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	2.62 kg (5.78 lb)	
	Gross Weight	4.06 kg (8.95 lb)	
	Product Dimensions	375.0 mm × 329.6 mm × 53.0 mm (14.76" × 12.98" × 2.09") (W × D × H)	

General

Packaging Dimensions

Packaging Dimensions	16.73") (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; FN 61000-3-3:2013+A1:2019+A2:2021: FN		

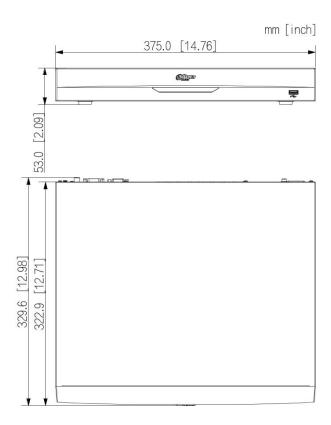
451.0 mm \times 147.0 mm \times 425.0 mm (17.76" \times 5.79" \times

55035:2017+A11:2020; EN 50130-4:2011+A1:2014

Ordering Information					
Туре	Model	Description			
NETWORK VIDEO RECORDER	DHI-NVR5232-16P-EI2	32CH 1U 16PoE 2HDDs WizSense Network Video Recorder			

CE-LVD: EN 62368-1:2014

Dimensions (mm[inch])



Panels



- 1 Power Input
- 3 PoE Ports
- 5 RS-485 Port
- 7 RS-232 Port
- 9 AUDIO IN, RCA Connector
- 11 USB Port

- 2 Power Switch
- 4 Alarm In/Out
- 6 VGA Port
- 8 AUDIO OUT, RCA Connector
- 10 Network Port
- 12 HDMI Port