



DHI-NVR5232-2N-E12

32CH 1U 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 Mbps incoming/recording/outgoing bandwidth.
- · Supports IP cameras with a resolution up to 32 MP.
- · Supports 8K HDMI output.
- · Supports iSCSI.
- 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.

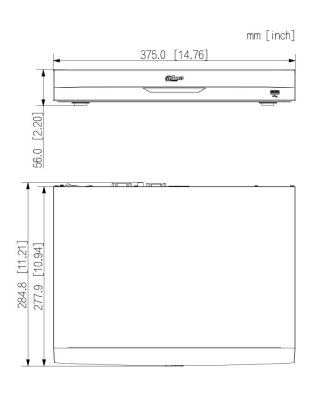
Technical Specification		SMD	SMD	
System		SMD Plus by Recorder	16 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	
Main Processor	Industrial-grade processor	SMD by Camera	All channels (64 targets/s)	
Operating System	Embedded Linux	Video Metadata	/ III chamiles (or targets/s)	
Operating Interface	Web, Local GUI	Metadata Performance of		
Al		Al by Recorder (Number of	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	Channels) 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)	Top color, top type, bottom color, bottom type, hat, bag,	
		People Attributes	age, gender and umbrella License plate, plate color, vehicle body, vehicle model,	
AcuPick Performance of	sound detection; AcuPick	Motor Vehicle Attributes	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)	man sz silálna, z sománica cient pel anamelyo	ANPR by Camera (Number of Channels)	All channels (8 targets/s)	
Perimeter Protection Perimeter Performance Al		License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist	
by Recorder (Number of Channels)	8 channels, 10 IVS rules for each channel	Audio and Video		
Perimeter Performance of		Access Channel	32 channels	
Al by Camera (Number of Channels)	All channels (32 targets/s)		Al disabled: 448 Mbps incoming, 448 Mbps recording and 448 Mbps outgoing	
Face Detection	Gender; age group; glasses; expressions; face mask;	Network Bandwidth	Al enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing	
Face Attributes	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	24-channel FD (by camera) + FR (by recorder), image stream: 24 face images/s 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 AI by	All channels (32 targets/s)	Compression Standar	Compression Standard	
Camera (Number of Channels)		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			
Network Mode	Multi-address; load balance; fault tolerance; link aggregation			
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	2 (10/100/1000 Mbps Ethernet port, RJ-45)			

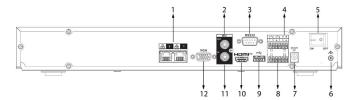
Power Supply	12 VDC, 4 A	
Power Consumption	Total output of NVR is \leq 10 W (without HDD)	
Net Weight	1.58 kg (3.48 lb)	
Gross Weight	2.80 kg (6.17 lb)	
Product Dimensions	375.0 mm \times 284.8 mm \times 56.0 mm (14.76" \times 11.21" \times 2.20") (W \times D \times H)	
Packaging Dimensions	427.0 mm \times 137.0 mm \times 356.0 mm (16.81" \times 5.39" \times 14.02") (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), 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-NVR5232-2N-EI2	32CH 1U 2HDDs WizSense Network Video Recorder			

Dimensions (mm[inch])



Panels



1 Network Ports 2 AUDIO OUT, RCA Connector

3 RS-232 Port
5 Power Switch
6 Ground
7 Power Input
8 Alarm In/Out
9 USB Port
10 HDMI Port
11 AUDIO IN, RCA Connector
12 VGA Port