



DHI-NVR4832-16P-EI

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

NVR4000-EI series is a new generation of network recorders that offers powerful decoding capabilities, and strong bandwidth. It features high-precision face recognition, perimeter protection, and SMD (Smart Motion Detection), which can distinguish target vehicles and humans from other types in real time. When connected with select IPC cameras, Quick Pick technology becomes available, allowing human and vehicle targets to be easily searched for and picked out. This network recorder is not only cost-effective, but also compatible with a wide variety of third-party devices, making it a great choice for small and medium-sized businesses.

Functions

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with that in face database.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format
- Access, storage or forwarding at 256 Mbps (180 Mbps when Al function enabled)
- Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding
- AI by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus
- Al by Camera: Face detection and recognition, perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map
- · Connected to the third-party network cameras
- · Security baseline 2.3



















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.

Al Search

With AI search, operators can search for videos by the attributes of targets and event types, which helps them to quickly and efficiently investigate where and when targets appeared and events took place.

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.

Quick Pick

Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.

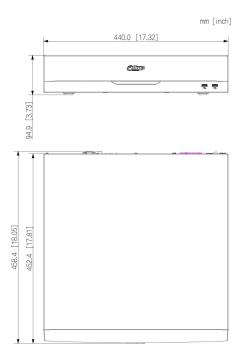
Technical Specification		Audio and Video		
System		Access Channel	32 channels	
Main Processor	Industrial-grade processor	Network Bandwidth	Al disabled: 256 Mbps incoming, 256 Ml and 256 Mbps outgoing	
Operating System	Embedded Linux	Network Bariawidan	Al enabled: 180 Mbps incoming, 180 and 180 Mbps outgoing	
Operating Interface	Web, Local GUI	Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 M 960p; 720p; D1; CIF	
Al				
Al by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus; Face detection; face recognition; perimeter protection;		Al disabled: 2-channel 16 MP@30 fps; 2-6 MP@30 fps; 4-channel 8 MP@30 fps; 4-c MP@30 fps; 6-channel 5 MP@30 fps; 8-c MP@30 fps; 6-channel 1080p@30 fps; 3-200 6-20 6-20 fps; 3-200 6-20 6-20 6-20 6-20 6-20 6-20 6-20	
Al by Camera	SMD Plus; ANPR; people counting; stereo analysis; heat map	Decoding Capability	720p@30 fps AI enabled: 1-channel 16 MP@30 fps; MP@30 fps; 3-channel 8 MP@30 fps;	
Perimeter Protection			MP@30 fps; 4-channel 5 MP@30 fps; 6-char MP@30 fps; 12-channel 1080p@30 fps; 16-c	
Perimeter Performance AI by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel		720p@30 fps; 32-channel D1p@30 fp 1 HDMI, 1 VGA	
Perimeter Performance of AI by Camera (Number of Channels)	All channels (8 targets/s)	Video Output	HDMI: 3840 × 2160, 1920 × 1080, 128 720 VGA: 1920 × 1080, 1280 × 1024, 1280 *Simultaneous/heterogeneous video vGA and HDMI is configurable.	
Face Detection			1st Screen: 1/4/8/9/16/25/36	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Multi-screen Display	2nd Screen: 1/4/8/9/16	
Face Detection	beatu	Third-party Camera Access	Panasonic, Sony, Samsung, Axis, Pelco Canon	
Performance of AI by Recorder (Number of	1 channel (up to 12 face images/s each channel)	Compression Standar	Compression Standard	
Channels)		Video Compression	Smart H.265+; H.265; Smart H.264+; F	
Face Detection Performance of Al by Camera (Number of Channels)	All channels (8 targets/s)	Audio Compression	G.711a; G.711u; PCM; G726	
		Network		
Face Recognition	Up to 10 face databases with 20,000 images, with a	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP, UDP; SMTP; NTP; DHCP; DNS; IP Filter FTP; Alarm Server; IP Search (Support DVR; NVS; etc.); P2P; auto register	
Face Database Capacity	total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and	Mobile Phone Access	iOS; Android	
	state can be added to each face image.	Interoperability	ONVIF 22.06(Profile T; Profile S; Profile	
Face Recognition Performance of AI by	8-channel FD (by camera) + FR (by recorder),image stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video stream: 12 face images/s	Browser	Chrome; IE9 and later; Firefox	
Recorder (Number of Channels)		Recording Playback		
Face Recognition		Multi-channel Playback	Up to 16 channels	
Performance of AI by Camera (Number of	All channels (8 targets/s)	Record Mode	General, motion detection; intelligent	
Channels)		Backup Method	USB device and network	
SMD Plus	A channels, Secondary filtering for house and are	Playback Mode	Instant playback, general playback, even playback, smart playback	
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change	Storage	Ven	
SMD Plus by Camera	All channels (16 targets/s)	Disk Group	Yes	
Vehicle License Plate	Comparison	Alarm		
ANPR by Camera (Number of Channels)	All channels (4 targets/s)	General Alarm	Motion detection; privacy masking; vic changing; PIR alarm; IPC external alarr	
License Plate Database Capacity	Create up to 20,000 plate numbers. Blocklist and allowlist	Anomaly Alarm	Camera disconnection; storage error; conflict; MAC conflict; login locked; ar exception	
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Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map		
Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email		
Port			
Audio Input	1-channel RCA		
Audio Output	1-channel RCA		
Alarm Input	16 channels		
Alarm Output	4 channels		
Disk Interface	8 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.		
RS-232	1		
RS-485	1		
USB	3 (2 front USB 2.0 ports, 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		
General			
Power Supply	100–240 VAC, 50-60 Hz		
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 150 W,the maximum output power of a single port is 25.5W		
Net Weight	6.72 kg (14.82 lb)		
Gross Weight	8.70 kg (19.18 lb)		
Product Dimensions	440.0 mm × 458.4 mm x 94.9 mm (17.32" × 18.05" × 3.73") (W × D × H)		
Packaging Dimensions	570.0 mm × 570.0 mm x 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		
Installation	Rack or desktop		
Certifications	FCC: 47 CFR FCC Part15, SubpartB, Class A 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-NVR4832-16P-EI	32CH 2U 16PoE 8HDDs WizSense Network Video Recorder			

Dimensions (mm[inch])



Panels

