





DHI-NVR4104HS-P-AI/ANZ

4 Channels Compact 1U 4PoE 1HDD WizSense Network Video Recorder





Launched by Dahua Technology, WizSense is a series of AI products and solutions that adopt independent AI 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-AI/ANZ 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 Detection

Face detection is to detect if there is any human face appearing in the video. This technology adopts a deep learning algorithm to support face detection, tracking, optimization and capturing, and then output the best face snapshot.

Face Recognition

Dahua Face Recognition technology extracts the features of captured faces and compares them with those in face database to recognize the person identity.

Perimeter Protection

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

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- · Access, storage or forwarding at 80 Mbps.
- \cdot Max. decoding capability: $16 \times 1080p@30$ fps. Supports adaptive decoding.
- · Al 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.
- · AI 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.

AI Search

Support AI seach by metadata of different targets or uploading face pictures to device and comparing them with recorded faces by similarity. Enable operators to quickly and easily search through multi channels and long duration, efficiently find out when and where a person of interest appeard.

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.

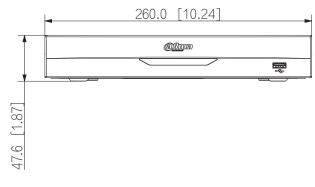
Technical Specification		Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoin
System		Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p;
Main Processor	Industrial-grade processor		960p; 720p; D1; CIF Al disabled: 2-channel 16 MP@30 fps; 2-channel 12
Operating System	Embedded Linux	D 11 0 1111	MP@30 fps; 4-channel 8 MP@30 fps Al enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5
Operating Interface	Web; Local GUI	Decoding Capability	
Al			MP@30 fps
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;		1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×
Al by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Video Output	720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable.
Perimeter Protection		Multi-screen Display	1st Screen: 1/4
Perimeter Performance AI by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Third-party Camera	2nd Screen: 1/4 Panasonic, Sony, Samsung, Axis, Pelco, Arecont, ONVIF, Canon
Perimeter Performance of		Access Canon Compression Standard	
Al by Camera (Number of Channels)	4 channels	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG
Face Detection		Audio Compression	G.711a; G.711u; PCM; G726
Face Attributes	Gender; age group; glasses; expressions; face mask;		G./11a, G./11u, FCW, G/20
	beard	Network	
Face Detection Performance of AI by Recorder (Number of Channels)	1 channel (up to 12 face images/s each channel)	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; FTP; Alarm Server; IP Search (Support Dahua IP camera; DVR; NVS; etc.); P2P; auto register
Face Detection	4 channels	Mobile Phone Access	iOS; Android
Performance of AI by Camera (Number of Channels)		Interoperability	ONVIF 21.12(Profile T; Profile S; Profile G); CGI; SDK
Face Recognition		Browser	Chrome; IE9 and later; Firefox
		Recording Playback	
	Up to 10 face databases with 200,00 images, with a total capacity of 2.5 G. Name, gender, birthday, address, credential type, credential No., countries & regions and state can be added to each face image.	Multi-channel Playback	Up to 4 channels
Face Database Capacity		Record Mode	General, motion detection; intelligent; alarm
Face Recognition	4-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	Backup Method	USB device and network
Performance of AI by Recorder (Number of		Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)
Channels)	stream. 12 face images/s	Alarm	
Face Recognition Performance of AI by Camera (Number of	4 channels	General Alarm	Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm
Channels) SMD Plus		Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Intelligent Alarm	Face detection; face recognition; perimeter protection; SMD Plus; people counting; stereo analysis; heat map
SMD Plus by Camera	4 channels	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email
Vehicle License Plate Comparison		Port	
ANPR by Camera (Number	4 channels	Audio Input	1-channel RCA
of Channels) License Plate Database Canacity	Create up to 20,000 plate numbers. Blocklist and allowlist	Audio Output	1-channel RCA
Capacity Audio and Video	د. اناناد aiiu aiiuwiist	HDD Interface	1 SATA port, up to 16 TB.The maximum HDD capacity varies with environment temperature.
Access Channel	4 channels	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)
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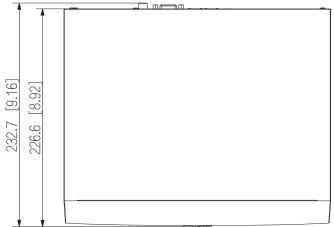
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HDMI	1		
VGA	1		
Network Port	1 (10/100 Mbps Ethernet port, RJ-45)		
PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at		
General			
Power Supply	53 VDC, 1.226 A		
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 36W,the maximum output power of asingle port is 25.5W		
Net Weight	0.86 kg (1.90 lb)		
Gross Weight	1.88 kg (4.14 lb)		
Product Dimensions	260 mm × 232.7 mm × 47.6 mm (10.24" × 9.16" × 1.87") (W × L × H)		
Packaging Dimensions	333 mm × 89 mm × 315 mm (13.11" × 3.50" × 12.40") (W × L × 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)		
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		

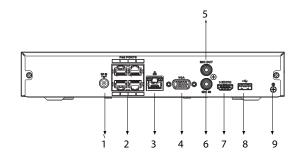
Ordering Information				
Туре	Model	Description		
4 Channels WizSense NVR	DHI-NVR4104HS- P-AI/ANZ	4 Channels Compact 1U 4PoE 1HDD WizSense Network Video Recorder		

Dimensions (mm[inch])





Panels



- Power Input
- 3 Network Port
- 5 AUDIO OUT, RCA Connector
- 7 HDMI Port
- 9 Ground

- 2 PoE Ports
- 4 VGA Port
- 6 AUDIO IN, RCA Connec
- 8 USB Port



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