

DHI-NVR4204-P-EI

4CH 1U 4PoE 2HDDs WizSense Network Video Recorder



Wiz Sense

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-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 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.
- \cdot 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.
- Al by Camera: Face detection and recognition, perimeter protection; SMD Plus; people counting; stereo analysis; heat map.
- \cdot 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.

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.



Wiz Sense | DHI-NVR4204-P-EI

Technical Specification			1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×		
System		Video Output	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Main Processor	Industrial-grade processor		*Simultaneous/heterogeneous video sources output f VGA and HDMI is configurable.		
Operating System	Embedded Linux	Multi-screen Di	splay 1st Screen: 1/4		
Operating Interface	Web; Local GUI	Third-party Can	2nd Screen: 1/4		
Al		Access	Canon		
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;	Compressio	n Standard		
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Video Compres	sion Smart H.265+; H.265; Smart H.264+; H.264; MJPEG		
Perimeter Protection		Audio Compres	sion G.711a; G.711u; PCM; G726		
Perimeter Performance Al		Network	Network		
by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Network Protoc	Alarm Server; IP Search (Support Danua IP camera; DV		
Perimeter Performance of AI by Camera (Number of Channels)	4 channels	Mobile Phone A	NVS; etc.); P2P; auto register Access iOS; Android		
Face Detection		Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CGI; SDK		
Free Attailed and	Gender; age group; glasses; expressions; face mask;	Browser	Chrome; IE9 and later; Firefox		
Face Attributes	beard				
Face Detection Performance of AI by			Recording Playback		
Recorder (Number of Channels)	1 channel (up to 12 face images/s each channel)	Multi-channel F			
Face Detection Performance of AI by		Record Mode	General, motion detection; intelligent; alarm		
Camera (Number of Channels)	4 channels	Backup Method	USB device and network		
Face Recognition		Playback Mode	playback, smart playback		
	Up to 10 face databases with 200,00 images, with a	Storage			
Face Database Capacity	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.	Disk Group	Yes		
Face Recognition	4-channel FD (by camera) + FR (by recorder),image	Alarm			
Performance of Al by Recorder (Number of Channels)	ormance of Al by stream: 12 face images/s order (Number of 1-channel FD (by recorder) + FR (by recorder), video		Motion detection; privacy masking; video loss; scene changing; PIR alarm; IPC external alarm		
Face Recognition Performance of AI by Camera (Number of	4 channels	Anomaly Alarm	Camera disconnection; storage error; disk full; IP conflict; MAC conflict; login locked; and cybersecurity exception		
Channels) SMD Plus		Intelligent Alarr	n Face detection; face recognition; perimeter protection SMD Plus; people counting; stereo analysis; heat map		
SMD Plus by Recorder	4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and	Alarm Linkage	Record; snapshot; IPC external alarm output; audio; buzzer; log; preset; email		
	lighting condition change	Port			
SMD Plus by Camera	4 channels	Audio Input	1-channel RCA		
Audio and Video		Audio Output	1-channel RCA		
Access Channel	4 channels	Alarm Input	4 channels		
Network Bandwidth	80 Mbps incoming, 80 Mbps recording and 80 Mbps outgoing	Alarm Output	2 channels		
Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MP; 1080p; 960p; 720p; D1; CIF	HDD Interface	2 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.		
Decoding Capability	AI disabled: 2-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 4-channel 8 MP@30 fps AI enabled: 1-channel 16 MP@30 fps; 2-channel 12 MP@30 fps; 3-channel 8 MP@30 fps; 4-channel 5	USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)		
		HDMI	1		
	MP@30 fps	VGA	1		



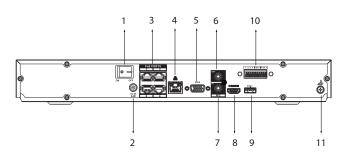
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Network Port	1 (10/100 Mbps Ethernet port, RJ-45)		
PoE Port	4 ports, 10/100 Mbps, IEEE 802.3 af/at		
General			
Power Supply	53 VDC, 1.81 A		
Power Consumption	Total output of NVR is <10 W(without HDD) Total output power of PoE is 48W,the maximum output power of asingle port is 25.5W		
Net Weight	1.58 kg (3.48 lb)		
Gross Weight	2.95 kg (6.50 lb)		
Product Dimensions	375 mm × 284.3 mm × 53 mm (14.76" × 11.19" × 2.09") (W × L × H)		
Packaging Dimensions	433 mm × 141 mm × 366 mm (17.05" × 5.55" × 14.41") (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		

375.0 [14.76]

Dimensions (mm[inch])

Panels



1 Power Switch

- 3 PoE Ports
- 5 VGA Port
 - 7 AUDIO IN, RCA Connector
- 9 USB Port
- 11 Ground

Power Input

2

- 4 Network Port
- 6 AUDIO OUT, RCA Connector
- 8 HDMI Port
- 10 Alarm Input/Output

Ordering Information

Туре	Model	Description
4 Channels WizSense NVR	DHI-NVR4204-P-EI	4CH 1U 4PoE 2HDDs WizSense Network Video Recorder

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