

DHI-NVR4204-EI

4CH 1U 2HDDs WizSense Network Video Recorder



Series Overview

Dahua Lite series NVR is easy to install, cost effective and compatible with a wide variety of third-party devices, providing a great solution for small and medium surveillance systems. It is ideal for home safety, supermarkets, warehouses, educational institutions, and financial institutions.

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.

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

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.

- 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
- AI by Camera: Face detection and recognition, perimeter protection; SMD Plus; people counting; stereo analysis; heat map
- Connected to the third-party network cameras
- Security baseline 2.3



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

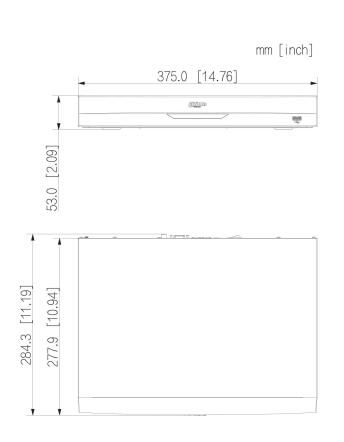
Dahua Quick Pick technology can enable users to quickly pick up the human/vehicle targets that they are interested in, which facilitates retrieval from SMD events.

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Technical Specification		Resolution	16 MP; 12 MP; 8 MP; 6 MP; 5 MP; 4 MP; 3 MF 960p; 720p; D1; CIF	
System			AI disabled: 2-channel 16 MP@30 fps; 2-channe MP@30 fps; 4-channel 8 MP@30 fps AI enabled: 1-channel 16 MP@30 fps; 2-channe MP@30 fps; 3-channel 8 MP@30 fps; 3-channel MP@30 fps; 4-channel 5 MP@30 fps	
Main Processor	Industrial-grade processor	Decoding Capability		
Operating System	Embedded Linux			
Operating Interface	Web, Local GUI		1 HDMI, 1 VGA	
AI			HDMI: 3840 × 2160, 1920 × 1080, 1280 × 102 720	
AI by Recorder	Face detection, face recognition, perimeter protection, and SMD Plus;	Video Output	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 *Simultaneous/heterogeneous video sources	
AI by Camera	Face detection; face recognition; perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map	Multi-screen Display	VGA and HDMI is configurable. 1st Screen: 1/4 2nd Screen: 1/4	
Perimeter Protection			Panasonic, Sony, Samsung, Axis, Pelco, Arecor	
Perimeter Performance Al		Third-party Camera Access	Canon	
by Recorder (Number of Channels)	2 channels, 10 IVS rules for each channel	Compression Standar	Compression Standard	
Perimeter Performance of		Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; N	
AI by Camera (Number of	All channels (8 targets/s)	Audio Compression	G.711a; G.711u; PCM; G726	
Channels)		Network		
Face Detection			HTTP; HTTPS; TCP/IP; IPv4/IPv6; UPnP; SNMP;	
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Network Protocol	SMTP; NTP; DHCP; DNS; IP Filter; PPPoE; DDNS; Alarm Server; IP Search (Support Dahua IP came DVR; NVS; etc.); P2P; auto register	
Face Detection Performance of AI by		Mobile Phone Access	iOS; Android	
Recorder (Number of Channels)	1 channel (up to 12 face images/s each channel)	Interoperability	ONVIF 22.06(Profile T; Profile S; Profile G); CG	
Face Detection		Browser	Chrome; IE9 and later; Firefox	
Performance of AI by Camera (Number of	All channels (8 targets/s)	Recording Playback		
Channels)		Multi-channel Playback	Up to 4 channels	
Face Recognition		Record Mode	General, motion detection; intelligent; alarm	
	Up to 10 face databases with 20,000 images, with a	Backup Method	USB device and network	
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.	Playback Mode	Instant playback, general playback, event play playback, smart playback	
Face Recognition	4-channel FD (by camera) + FR (by recorder),image	Storage		
Performance of AI by Recorder (Number of	stream: 12 face images/s 1-channel FD (by recorder) + FR (by recorder), video	Disk Group	Yes	
Channels)	stream: 12 face images/s	Alarm		
Face Recognition Performance of AI by	All channels (8 targets/s)	General Alarm	Motion detection; privacy masking; video loss changing; PIR alarm; IPC external alarm	
Camera (Number of Channels)		Anomaly Alarm	Camera disconnection; storage error; disk full conflict; MAC conflict; login locked; and cyber	
SMD Plus			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 pr SMD Plus; people counting; stereo analysis; h	
SMD Plus by Camera	All channels (16 targets/s)	Alarm Linkage	Record; snapshot; IPC external alarm output; buzzer; log; preset; email	
Audio and Video		Port		
Access Channel	4 channels	Audio Input	1-channel RCA	
Access channel	AI disabled: 256 Mbps incoming, 256 Mbps recording	Audio Output	1-channel RCA	

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Alarm Output	2 channels			
Disk Interface	2 SATA ports, up to 16 TB.The maximum HDD capacity varies with environment temperature.			
USB	2 (1 front USB 2.0 port, 1 rear USB 2.0 port)			
HDMI	1			
VGA	1			
Network Port	1 (10/100/1000 Mbps Ethernet port, RJ-45)			
General				
Power Supply	12 VDC, 4 A			
Power Consumption	<10 W(without HDD)			
Net Weight	1.51 kg (3.33 lb)			
Gross Weight	2.76 kg (6.08 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), 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			

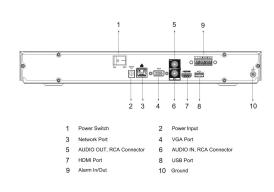


Ordering Information

Туре	Model	Description
NETWORK VIDEO RECORDER	DHI-NVR4204-EI	4CH 1U 2HDDs WizSense Network Video Recorder

Panels

Dimensions (mm[inch])



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