

DHI-NVR5208-8P-EI

8 Channels 1U 8PoE 2HDDs 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

The NVR5000-EI series offers outstanding performance and high-grade recording technology that make it ideal for IP video surveillance applications. It has a powerful processor, that offers high access and forwarding bandwidth and strong decoding capabilities that together produce unimpeded streams. Thanks to its built-in AI chip and Dahua's advanced deep learning algorithms, the NVR supports a variety of AI functions, such as high-precision face recognition and perimeter protection. They shorten the response time to events and make videos more interactive. This NVR is compatible with numerous third-party devices, making it a great solution for surveillance systems that work with Video Management Software (VMS).

Functions

AcuPick

This industry-leading search technology effectively utilizes both front-end and back-end intelligence to help with searching through massive video data to quickly and conveniently locate targets with greater precision.

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.

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.

- · Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format.
- \cdot Max. decoding capability: 32 × 1080p@30 fps or 8 × 8MP@30 fps.
- · Max. 384 Mbps incoming/recording/outgoing bandwidth.
- · Support AcuPick with Max. 8-Channel.
- · Support N+M cluster.
- Al by recorder: 2-channel face detection and recognition, 4-channel perimeter protection, and 8-channel SMD Plus.
- Al by camera: Face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.
- · Security baseline 2.3.



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.

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.

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.

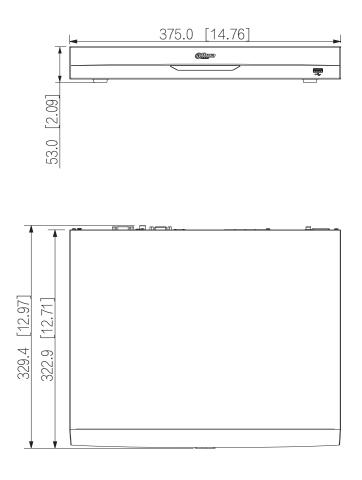
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Technical Specification		Non-motor Vehicle Attributes	Vehicle model, vehicle color, number of persons, helmet.	
System		Vehicle License Plate Comparison		
Main Processor	Industrial-grade processor	ANPR by Camera (Number	8 channels	
Operating System	Embedded Linux	of Channels)	8 channels	
Operating Interface	Web, Local GUI	License Plate Database Capacity	1. Create up to 20,000 plate numbers. 2. Blocklist and allowlist	
AI		Audio and Video	······································	
AI by Recorder	Face detection; face recognition; perimeter protection; SMD Plus	Access Channel	8	
Al by Camera	Face detection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); perimeter protection; SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map	Network Bandwidth	o AI disabled: 384 Mbps incoming, 384 Mbps recording and 384 Mbps outgoing AI enabled: 200 Mbps incoming, 200 Mbps recording and 200 Mbps outgoing	
AcuPick Al by Camera + Recorder	Max. 8-channel, 1 combined event per channel/s	Resolution	32 MP; 24 MP; 16 MP; 12 MP; 8 MP; 5 MP; 4 MP; 1080p; 720p; D1; CIF; QCIF	
Perimeter Protection			Al disabled: 2-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 Al enabled: 1-channel 32 MP@25 fps; 1-channel 24 MP@25 fps; 2-channel 16 MP@30 fps; 4-channel 12 MP@30 fps; 6-channel 8 MP@30 fps; 8-channel 5 MP@30 fps	
Perimeter Performance AI by Recorder (Number of Channels) Perimeter Performance of	4 channels, 10 IVS rules for each channel	Decoding Capability		
AI by Camera (Number of Channels)	8 channels	Video Output	1 VGA, 1 HDMI VGA:1920 × 1080, 1280 × 1024, 1280 × 720 HDMI:3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 Heterogeneous video source output for HDMI and VGA	
Face Detection				
Face Attributes	Gender; age group; glasses; expressions; face mask; beard	Multi-screen Display	Main screen: 1/4/8/9 Sub screen: 1/4/8/9	
Face Detection Performance of AI by Recorder (Number of Channels)	2 channels (up to 12 face images/s each channel)	Third-party Camera Access	ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung	
Face Detection		Compression Standard		
Performance of AI by Camera (Number of	8 channels	Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG	
Channels)		Audio Compression	G.711a; G.711u; PCM; G726	
Face Recognition		Network		
Face Database Capacity	Up to 20 face databases with 20,000 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	Network Protocol	HTTP; HTTPS; TCP/IP; IPv4/IPv6; UDP; SNMP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; PPPoE; FTP; DDNS; Alarm Server; IP Search (Supports Dahua IP camera, DVR, NVS, etc.); Multicast; P2P; Auto Registration; ISCSI	
Face Recognition Performance of AI by	 8-channel FD (by camera) + FR (by recorder), image stream: 16 face images/s 2-channe FD (by recorder) + FR (by recorder), video stream: 12 face images/s 	Mobile Phone Access	iOS; Android	
Recorder (Number of Channels)		Interoperability	ONVIF 22.12 (Profile T; Profile S; Profile G); CGI; SDK	
Face Recognition	8 channels	Browser	Chrome;IE;Safari;Edge;Firefox	
Performance of AI by Camera (Number of		Recording Playback		
Channels)		Multi-channel Playback	Up to 8 channels	
SMD Plus	9 shannels, Coopedary filtering for human and mater	Record Mode	General, motion detection; intelligent; alarm; POS	
SMD Plus by Recorder	8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change	Backup Method	USB device and network	
SMD Plus by Camera	8 channels	Playback Mode	Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)	
Video Metadata		Storage		
Metadata Performance of AI by Camera (Number of	8 channels	Disk Group	Yes	
Channels)	Top color, top type, bottom color, bottom type, hat, bag,	Alarm		
Human Attributes	age, gender and umbrella	General Alarm	Motion detection; privacy masking; local alarm	
Motor Vehicle Attributes	License plate, plate color, vehicle body, vehicle model, vehicle logo, calling, seatbelt, vehicle interior, vehicle registration location.	Anomaly Alarm	Camera offline; storage error; disk full; IP conflict; MAC conflict; login lock; abnormal behavior of fan; cybersecurity exception	

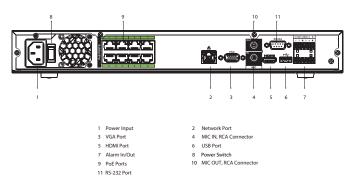
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Intelligent Alarm	Face detection; perimeter protection; face recognition; video metadata (human, motor vehicles, and non-motor vehicles); SMD Plus; stereo analysis; crowd distribution; people counting; ANPR; vehicle density; heat map			
Alarm Linkage	Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email			
Port				
Audio Input	1-channel RCA			
Audio Output	1-channel RCA			
Alarm Input	4 channels			
Alarm Output	2 channels			
HDD Interface	2 SATA ports, each disk can contain up to 20 TB. 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	1(10/100/1000 Mbps Ethernet port, RJ-45)			
PoE Port	8 ports, 10/100 Mbps, IEEE 802.3 af/at, 1-8 ports support ePoE			
General				
Power Supply	100–240 VAC, 47-63 Hz			
Power Consumption	Total output of NVR is ≤ 10 W (without HDD) Total output power of PoE is 130 W, the maximum output power of a single port is 25.5W			
Net Weight	2.57 kg (5.67 lb)			
Gross Weight	3.8 kg (8.38 lb)			
Product Dimensions	375.0 mm × 329.4 mm × 53.0mm (14.76" × 12.97" × 2.09") (W × D × H)			
Packaging Dimensions	451.0 mm × 147.0 mm × 425.0 mm (17.76" × 5.79" × 16.73") (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)			
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			

Dimensions (mm[inch])



Panels



Ordering Information				
Туре	Model	Description		
8 Channels WizSense NVR	DHI-NVR5208- 8P-EI	8 Channels 1U 8PoE 2HDDs WizSense Network Video Recorder		

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