

# DHI-NVR4208-8P-I

# 8Channel 1U 8PoE Al Network Video Recorder



Al series products adopt the most advanced Al technologies, including deep learning algorithms that primarily target people and vehicles, which provides higher flexibility and accuracy for end-users. This enables the Dahua Al series to offer various advanced applications such as Face Recognition, ANPR, People Counting, traffic data statistics, etc.

The complete lineup of Dahua AI includes network (PTZ) cameras, network video recorders, servers, and platform management products. Beyond seeing the world, the power of AI allows devices to perceive the environment and understand the world in a better way.

## **System Overview**

Dahua new NVR4000-I network video recorder delivers excellent performance and high recording quality that is ideally suitable for IP video surveillance applications. This NVR adopts powerful processor, providing the capability of 4K resolution processing for applications where image details are highly required. Besides, the NVR supports input, recording and transmission functions. Additionally, the NVR can be served as edge storage, central storage or backup storage with an intuitive shortcut operation menu for remote management and control.

With build-in deep learning module, NVR4000-I series products adopt video image structuring technology based on deep learning algorithms, achieving high-precision human face recognition and perimeter protection. By applying deep learning artificial intelligence, NVR4000-I allows users to focus on what matters most, improves event response time and helps make video actionable.

The NVR is compatible with numerous third-party devices, which make it the perfect solution for surveillance systems that work independently of video management system (VMS).

#### **Functions**

## Perimeter Protection

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

- · 8 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 4 Channel perimeter protection
- Up to 2 Channel video stream face recognition/8 channel picture stream face recognition ( with FD camera)
- Up to 12 face pictures /sec processing
- Up to 10 face databases with 20,000 face images in total
- 1-8 PoE Ports support ePoE & EoC



#### Real Time Face Recognition

Video stream & picture stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

#### Face Database Management

Configurable multiple face databases. Powerful face database management. Face database can be applied to video channels independently. Name, gender, birthday, address, certificate type, certificate No., countries&regions and state can be added to each face picture.

#### Common/Stranger Mode

NVR4000-I supports common and stranger mode. In stranger mode, when NVR detects a strange face(not in device's face database), it can trigger alarm, buzzer, snapshot, record, etc. Similarity threshold can be set manually. This function is developed for important infrastructure sites for which access control is critical.

#### Al Search

Support seach by metadata of human and vehicles. Support uploading face pictures to NVR and compare them with recorded faces in NVR 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.

#### ANPR

Automatic Number Plate Recognition available for convenient entrance/ exit management. Support license plate recognition(working with Dahua ITC camera), black/white list import/export, add/delete B/W list number, search result from recorded video.



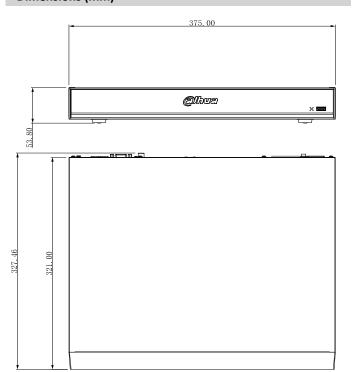
Table to Jones		Video Detection ar	nd Alarm	
Technical Specification		Alarm Out Video Push Email Recording PTZ Tour		
System		Trigger Events	Trigger Events Snapshot, Voice Prompt, Buzzer and Screen Tips	
Main Processor	Multi-core embedded processor	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss Tampering and Scene Change	
Operating System	Embedded LINUX	Alarm Input	4 Channel	
Perimeter Protection		Alarm Output	2 Channel	
Performance	4 channel, 10 IVS rules for each channel	Playback and Backup		
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Sync Playback	1/4/9	
Al Search	Search by target classification (Human, Vehicle)	Search Mode	Time / Date, Alarm, MD and Exact Search (accurate to second)	
Face Recognition		Backup Mode	USB Device/Network	
ace Necognition		Third-party Support		
Performance	Max 12 face pictures /sec processing		Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC, LG	
	2 channel video stream face recognition / 8 channel picture stream face recognition ( with FD camera)	Third-party Support	Panasonic, Pelco, Xunmei, Samsung, Sanyo, Sony, Watch and more	
Stranger Mode	Detect strangers' faces(not in device's face database). Similarity threshold can be set manually.	Network	Network	
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Interface	1 RJ-45 Port (10/100/1000Mbps)	
	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate	PoE	8 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC	
Database Management	No., countries&regions and state can be added to each face picture.		HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UE SMTP, NTP, DHCP, DNS, IP Filter, PPP0E,DDNS, FTP, Ala	
Database Application	Each database can be applied to video channels independently.	Network Function	Center, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Max. User Access	128 users	
Audio and Video		Mobile App	Mobile App iPhone, iPad, Android	
IP Camera Input	8 Channel	Interoperability	Interoperability ONVIF (Profile S), SDK, CGI	
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	Storage	Storage	
Display		Internal HDD	Internal HDD 2 SATA III Ports, Up to 8 TB capacity for each HDD	
Interface	1 HDMI, 1 VGA	eSATA	NA	
Resolution	HDMI/VGA: 3840 x 2160, 1920 × 1080 , 1280 × 1024, 1280 × 720 , 1024 × 768	Auxiliary Interface	Auxiliary Interface	
Decoding Capability	2-ch@8MP(30fps), 8-ch@1080P(30fps)	USB	2 USB Ports (1 Rear USB 2.0 , 1 Front USB 2.0 )	
Multi-screen Display	1/4/8/9	RS232	RS232 NA	
Recording		RS485	NA	
Bandwidth	200Mbps (80Mbps when AI function enabled, based on Dahua private protocol)			
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG			
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.			
Record Mode	Manual, Schedule (Continuous, MD(Motion Detection) , Alarm, IVS)			
Record Interval	$1 {^\sim} 120$ min (default: 60 min), Pre-record: $1{^\sim} 30$ sec, Post-record: $10{^\sim} 300 \text{sec}$			

# Al series | DHI-NVR4208-8P-I

## Electrical

Electrical					
Power Supply	Single, AC100-240V, 3.5A				
	NVR: <6.0W (Without HDD)				
Power Consumption	PoE: Max 25.5W for single port 130W total rated power				
Environmental					
Operating Conditions	-10°C ~ +55°C (+14°F ~ +131°F), 86 ~ 106kpa				
Storage Conditions	-20°C ~ +70°C (-4°F ~ +158°F), 0 ~ 90% RH				
Construction					
Dimensions	1U, 375mm x 321mm x 53.8mm ; (14.8" x 12.6" x 2.1")				
Net Weight	2.57kg (5.7lb) (without HDD)				
Gross Weight	3.72kg (8.2lb) (without HDD)				
Certifications					
CE	EN55035, EN55032, EN55024, EN50130-4, EN60950-1				
FCC	Part 15 Subpart B, ANSI C63.4-2014				

# Dimensions (mm)



## **Rear Panel**

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#### **Ordering Information** Туре Part Number Description 8 Channel 8 Channel 1U 8PoE AI Network Video DHI-NVR4208-8P-I AI NVR Recorder

