

# DHI-NVR4216-16P-I

16Channel 1U 16PoE 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.

## **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.

# **Face Recognition**

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

- 16 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



#### **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.

#### **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 block/allowlist mode, searching target vehicles from recorded video.

# **Fisheye Dewarping**

Fisheye dewarping solves the problem of distortion in the circular panoramic view. The device offers various dewarping modes for different installations and configurations that enhance the video, in both live or playback modes. Each dewarping mode offers options to adjust each scene.

## **People Counting by Camera**

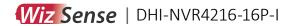
With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

#### **DMSS**

The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

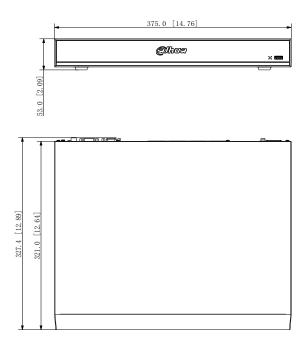


Technical Specification		Alarm Output	2 Channel
System		Playback and Backup	
Main Processor	Multi-core embedded processor	Sync Playback	1/4/9/16
Operating System	Embedded LINUX	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)
Perimeter Protection		Backup Mode	USB Device/Network
Performance	4 channel, 10 IVS rules for each channel	Third-party Suppor	t
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Third-party Support	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more
Al Search	Search by target classification (Human, Vehicle)	Network	
Face Recognition		Interface	1 RJ-45 Port (10/100/1000 Mbps)
Performance	Max 12 face pictures/sec processing	PoE	16 ports (IEEE802.3af/at)
	2 channel video stream face recognition/8 channel picture stream face recognition (with FD camera)	. 02	1-8 ports support ePoE & EoC  HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDI
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Network Function	SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alar Center, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Al Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.	Max. User Access	128 users
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries&regions and state can be added to each face picture.	Mobile App	iPhone, iPad, Android
		Interoperability	ONVIF (Profile S), SDK, CGI
Database Application	Each database can be applied to video channels	Storage	
Trigger Events	independently.  Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Internal HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature
Audio and Video		eSATA	NA
IP Camera Input	16 Channel	Auxiliary Interface	
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	USB	2 USB Ports (1 Rear USB 2.0 , 1 Front USB 2.0)
Display		RS232	1 Port, for PC Communication and Keyboard
Interface	1 HDMI, 1 VGA	RS485	NA
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Electrical	Circle AC(100 340)/ 3 FA
December 11 Completition	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Power Supply	Single, AC100-240V, 3.5A
Decoding Capability  Multi-screen Display	2-ch@8MP (30fps), 8-ch@1080P (30fps) 1/4/8/9/16	Power Consumption	NVR: <6.1W (Without HDD)  PoE: Max 25.5W for single port
Recording			130W total rated power
Bandwidth	200 Mbps (80 Mbps when Al function enabled, based on	Environmental	4000
Compression	Dahua private protocol)  Smart H.265+/H.265/Smart H.264+/H.264/MJPEG	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa
·	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P,	Storage Conditions  Construction	0°C to +40°C (+32°F to +104°F), 30–85% RH
Resolution	D1 etc.  Manual, Schedule (Continuous, MD (Motion Detection),		1U, 375.0 mm × 327.4 mm × 53.0 mm (14.76" × 12.89"
Record Mode	Alarm, IVS)	Dimensions	× 2.09")
Record Interval	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec	Net Weight	2.68 kg (5.9 lb) (without HDD)
Video Detection and Alarm		Gross Weight 4.02 kg (8.9 lb) (without HDD)	
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips	Certifications	ENITEONE ENITEON ENITEON ENITEON
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change	CE	EN55035, EN55032, EN55024, EN50130-4, EN60950-1
Alarm Input	4 Channel	FCC	Part 15 Subpart B, ANSI C63.4-2014
1, 2, 2		UL	UL 60950-1



Ordering Information			
Туре	Model	Description	
16 Channel WizSense NVR	DHI-NVR4216-16P-I	16 Channel 1U 16PoE WizSense Network Video Recorder	

# Dimensions (mm[inch])



# **Panels**

