

# DHI-NVR4416-16P-I

# 16Channel 1.5U 4HDDs 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.

#### **Series 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**

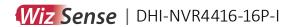
With deep learning algorithm, Dahua People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

#### **DMSS**

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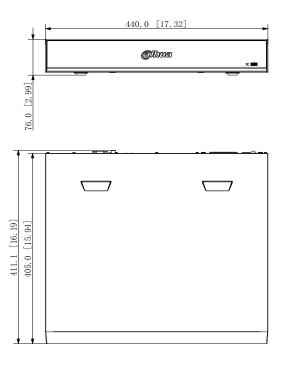
The DMSS app is available on the iOS App Store and Google Play. It makes surveillance easy and simple, allowing you to remotely access back-end devices, view live video, receive event push notifications, and search for recorded videos from an iPhone, iPad, or Android phone at anytime from virtually anywhere.

Technical Specification		Alarm Output	4 Channel
System		Playback and Backup	0
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 Protectio	n	Backup Mode	USB Device/Network
Performance	4 channel, 10 IVS rules for each channel	Third-party Support	
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)		
Face Recognition		Network	
Performance	Max 12 face pictures/sec processing	Interface	1 RJ-45 Port (10/100/1000 Mbps)
	2 channel video stream face recognition/8 channel picture stream face recognition (with FD camera)	PoE	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.  Up to 8 target face images search at same time, similarity	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPP0E, DDNS, FTP, Alarm Center, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P
Al Search	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 independently.	Storage	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Internal HDD	4 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 3.0 , 1 Front USB 2.0)
Display		RS232	1 Port, for PC Communication and Keyboard
Interface	1 HDMI, 1 VGA	RS485	1 Port, for PTZ Control
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Electrical	1101(1011122011101
Decoding Capability	2-ch@8MP (30fps), 8-ch@1080P (30fps)	Power Supply	Single, AC100-240V, 4A
Multi-screen Display	1/4/8/9/16		NVR: <8.2W (Without HDD)
Recording	2, 1, 0, 0, 20	Power Consumption	PoE: Max 25.5W for single port 150W total rated power
Bandwidth	200 Mbps (80 Mbps when AI function enabled, based on Dahua private protocol)	Environmental	
Compression	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
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.	Storage Conditions	0°C to +40°C (+32°F to +104°F), 30–85% RH
Record Mode	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)	Construction	1.5U, 440.0 mm × 411.1 mm × 76.0 mm (17.32" × 16.19"
Record Interval	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec	Dimensions	× 2.99")
Video Detection and Alarm		Net Weight	4.79 kg (10.6 lb) (without HDD)
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour,	Gross Weight	7.11 kg (15.7 lb) (without HDD)
	Snapshot, Voice Prompt, Buzzer and Screen Tips  Motion Detection, MD Zones: 396 (22 × 18), Video Loss,	Certifications	
Video Detection	Tampering and Scene Change	CE	EN55035, EN55032, EN55024, EN50130-4, EN60950-1
Alarm Input	16 Channel	FCC	Part 15 Subpart B, ANSI C63.4-2014

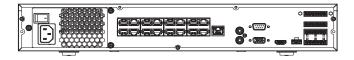


Ordering Information			
Туре	Model	Description	
16 Channel WizSense NVR	DHI-NVR4416-16P-I	16 Channel 1.5U 16PoE WizSense Network Video Recorder	

# Dimensions (mm[inch])



## **Panels**



Rev 001.001