

DHI-NVR4216-16P-I

16Channel 1U 2HDDs 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

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.

Wiz Sense | DHI-NVR4216-16P-I

Technical Specification

lecinical Specification			
System			
Main Processor	Multi-core embedded processor		
Operating System	Embedded LINUX		
Perimeter Protection			
Performance	4 channel, 10 IVS rules for each channel		
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion		
Al Search	Search by target classification (Human, Vehicle)		
Face Recognition			
Performance	Max 12 face pictures/sec processing		
	2 channel video stream face recognition/8 channel picture stream face recognition (with FD camera)		
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.		
AI Search	Up to 8 target face images search at same time, similarity threshold can be set for each target face image.		
Database Management	Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, certificate No., countries®ions and state can be added to each face picture.		
Database Application	Each database can be applied to video channels independently.		
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.		
Audio and Video			
IP Camera Input	16 Channel		
Two-way Talk	1 Channel Input, 1 Channel Output, RCA		
Display			
Interface	1 HDMI, 1 VGA		
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		
Decoding Capability	2-ch@8MP (30fps), 8-ch@1080P (30fps)		
Multi-screen Display	1/4/8/9/16		
Recording			
Bandwidth	200 Mbps (80 Mbps 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	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post- record: 10–300 sec		
Video Detection and Alarm			
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips		
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change		
Alarm Input	4 Channel		

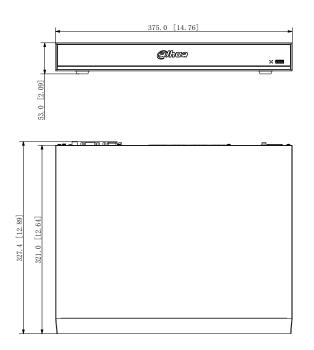
Alarm Output	2 Channel		
Playback and Backup			
Sync Playback	1/4/9/16		
Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)		
Backup Mode	USB Device/Network		
Third-party Support			
Third-party Support	Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more		
Network			
Interface	1 RJ-45 Port (10/100/1000 Mbps)		
РоЕ	16 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC		
Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Center, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P		
Max. User Access	128 users		
Mobile App	iPhone, iPad, Android		
Interoperability	ONVIF (Profile S), SDK, CGI		
Storage			
Internal HDD	2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment temperature		
eSATA	NA		
Auxiliary Interface			
USB	2 USB Ports (1 Rear USB 2.0 , 1 Front USB 2.0)		
RS232	1 Port, for PC Communication and Keyboard		
RS485	ΝΑ		
Electrical			
Power Supply	Single, AC100-240V, 3.5A		
Dowor Consumption	NVR: <6.1W (Without HDD)		
Power Consumption	PoE: Max 25.5W for single port 130W total rated power		
Environmental			
Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa		
Storage Conditions	0°C to +40°C (+32°F to +104°F), 30–85% RH		
Construction			
Dimensions	1U, 375.0 mm × 327.4 mm × 53.0 mm (14.76" × 12.89" × 2.09")		
Net Weight	2.68 kg (5.9 lb) (without HDD)		
Gross Weight	4.02 kg (8.9 lb) (without HDD)		
Certifications			
CE	EN55035, EN55032, EN55024, EN50130-4, EN60950-1		
FCC	Part 15 Subpart B, ANSI C63.4-2014		
UL	UL 60950-1		

Wiz Sense | DHI-NVR4216-16P-I

Ordering Information

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

Dimensions (mm[inch])





Rev 001.001 © 2021 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.