



DHI-NVR4216-I

16Channel 1U 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

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



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.

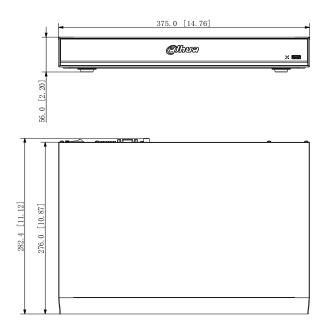


Technical Specification		Alarm Output	2 Channel	
System		Playback and Backu	Playback and Backup	
Main Processor	Multi-core embedded processor	Sync Playback	1/4/9/16	
Operating System	Embedded LINUX	Search Mode	Time/Date, Alarm, MD and Exact Search (accurate to second)	
Perimeter Protection		Backup Mode	USB Device/Network	
Performance	4 channel, 10 IVS rules for each channel	Third-party 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)		Callon and more	
Face Recognition		Network		
	Max 12 face pictures/sec processing	Interface	1 RJ-45 Port (10/100/1000 Mbps)	
Performance	2 channel video stream face recognition/8 channel picture stream face recognition (with FD camera)	PoE	NA	
Stranger Mode	Detect strangers' faces (not in device's face database). Similarity threshold can be set manually.	Network Function	HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPOE, DDNS, FTP, Alarr 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®ions 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	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	NA	
Interface	1 HDMI, 1 VGA	RS485	NA	
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720	Electrical		
Decoding Capability	2-ch@8MP (30fps), 8-ch@1080P (30fps)	Power Supply	Single, DC 12V, 4A	
Multi-screen Display	1/4/8/9/16	Power Consumption	NVR: <2.9W (Without HDD)	
		Environmental		
Recording	200 Mbps (80 Mbps when AI function enabled, based on	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa	
Bandwidth	Dahua private protocol)	Storage Conditions	0°C to +40°C (+32°F to +104°F), 30-85% RH	
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG	Construction		
Resolution	12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.	Dimensions	1U, 375.0 mm × 282.4 mm × 56.0 mm (14.76" × 11.12" × 2.20")	
Record Mode	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)	Net Weight	1.55 kg (3.4 lb) (without HDD)	
Record Interval	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10 –300 sec	Gross Weight	2.81 kg (6.2 lb) (without HDD)	
Video Detection and Alarm		Certifications		
Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips	CE	EN55035, EN55032, EN55024, EN50130-4, EN60950-1	
Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change	FCC	Part 15 Subpart B, ANSI C63.4-2014	
Alarm Input	4 Channel	UL	UL 60950-1	



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

Dimensions (mm[inch])



Panels

