

DHI-NVR5216-8P-I

16Channel 1U 8PoE WizMind Network Video Recorder





Launched by Dahua Technology, Dahua WizMind is a full portfolio of solutions composed of project-oriented products including IPC, NVR, PTZ, XVR, Thermal and software platform which adopts industry-leading deep learning algorithms. Focusing on customer's requirements, WizMind provides precise, reliable and comprehensive AI solutions for verticals.

System Overview

Dahua new NVR5000-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. 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, NVR5000-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, NVR5000-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.

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.

- 16 Channel IP video access
- Smart H.265+/H.265/Smart H.264+/H.264/MJPEG
- Up to 16 Channel perimeter protection
- Up to 4 Channel video stream face recognition
- Up to 24 face pictures/sec processing
- Up to 20 face databases with 100,000 face images in total
- 1-8 PoE Ports support ePoE & EoC



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®ions and state can be added to each face picture.

Common/Stranger Mode

NVR5000-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.

Point of Sale (POS)

Ideal for grocery and retail stores, the optional POS solution allows the NVR to receive a POS transaction via corresponding video. This feature allows merchants to analyze specific transactions via the Fuzzy search algorithm.

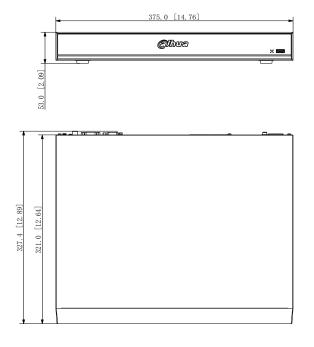


Technical Specification		Record Interval	1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec	
System		Video Detection ar	Video Detection and Alarm	
Main Processor	Multi-core embedded processor	Trigger Events	Alarm Out, Video Push, Email, Recording, PTZ, Tour, Snapshot, Voice Prompt, Buzzer and Screen Tips	
Operating System	Embedded LINUX	Video Detection	Motion Detection, MD Zones: 396 (22 × 18), Video Loss, Tampering and Scene Change	
Perimeter Protection		Alarm input	4 Channel	
Performance	16 channel, 10 IVS rules for each channel	Relay Output	2 Channel	
Object classification	Human/Vehicle secondary recognition for tripwire and intrusion	Playback and Backi	ın	
Al Search	Search by target classification (Human, Vehicle)	Sync Playback	1/4/9/16	
Face Recognition			Time/Date, Alarm, MD and Exact Search (accurate to	
	Max 24 face pictures/sec processing (modeling and comparing)	Search Mode Backup Mode	second) USB Device/Network	
Performance	4 channel video stream face recognition/16 channel		,	
	picture stream face recognition (with FD camera) Detect strangers' faces (not in device's face database).	Third-party Suppor	Arecont Vision, Airlive, AXIS, Canon, Dynacolor, JVC,	
Stranger Mode	Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity	Third-party Support	LG, Panasonic, Pelco, Xunmei, Samsung, Sanyo, Sony, Watchnet and more	
Al Search	threshold can be set for each target face image.	Network		
Database Management	Up to 20 face databases with 100,000 face images in total. Name, gender, birthday, nationality, address, ID	Interface	1 RJ-45 Ports (10/100/1000 Mbps)	
Database Application	information can be added to each face picture. Each database can be applied to video channels	PoE	8 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC	
Database Application	independently.		HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP,	
Trigger Events	Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc.	Network Function	SMTP, NTP, DHCP, DNS, IP Filter, PPPOE,DDNS, FTP, Alarm Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P	
Metadata		Max. User Access	128 users	
Face	Gender, age, glasses, beard, mask.	Mobile App	iPhone, iPad, Android	
Vehicle	Vehicle color, vehicle model, vehicle logo, plate color, vehicle decorations, call, seatbelt.	Interoperability	ONVIF 2.4, SDK, CGI	
Human Body	Tops style,tops color,bottom style,bottom color, hat, bag.	Storage		
Non-motor Vehicle	Type, color, people number.	Internal HDD	2 SATA III Ports, Up to 8 TB capacity for each HDD	
Al Search	Support search target video by metadata.	eSATA	N/A	
Audio and Video		Auxiliary Interface		
IP Camera Input	16 Channel	USB	2 USB Ports (1 Rear USB 3.0, 1 Front USB 2.0)	
Two-way Talk	1 Channel Input, 1 Channel Output, RCA	RS232	1 Port, for PC Communication and Keyboard	
Display		RS485	1 Port, for PTZ Control	
Interface	1 HDMI, 1 VGA	Electrical		
Resolution	HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720	Power Supply	Single, AC100V–240V, 50–60 Hz	
	VGA: 1920 × 1080, 1280 × 1024, 1280 × 720		NVR: <15.6W (Without HDD)	
Decoding Capability	4-ch@8MP (30fps), 16-ch@1080P (30fps)	Power Consumption	PoE: Max 25.5W for single port 130W total rated power, 80% control for protection	
Multi-screen Display	1/4/8/9/16	Fan	Smart fan, automatically adjust running speed	
Recording		Environmental		
Bandwidth	320 Mbps (160 Mbps when AI function enabled)	Operating Conditions	-10°C to +55°C (+14°F to +131°F), 86–106kpa	
Compression	Smart H.265+/H.265/Smart H.264+/H.264/MJPEG	Storage Conditions	0°C to +40°C (+32°F to +104°F), 30–85% RH	
Resolution	16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, 720P, D1 etc.	Construction		
Record Mode	Manual, Schedule (Continuous, MD (Motion Detection), Alarm, IVS)	Dimensions	1U, 375.0 mm × 327.4 mm × 53.0 mm (14.76" × 12.89" × 2.09")	

Net Weight	2.70 kg (6.0 lb) (without HDD)			
Gross Weight	4.00 kg (8.8 lb) (without HDD)			
Certifications				
CE	EN55032, EN55024, EN50130-4, EN60950-1			
FCC	Part 15 Subpart B, ANSI C63.4-2014			
UL	UL 60950-1			

Ordering Information				
Туре	Model	Description		
16 Channel WizMind NVR	DHI-NVR5216-8P-I	16 Channel 1U 8PoE WizMind Network Video Recorder		

Dimensions (mm[inch])



Panels

