

DHI-NVR5216-8P-I

16Channel 1U 2HDDs 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.

Series 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.

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.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology cancategorize the targets that trigger motion detection and filter the

- 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 22 face pictures/sec processing
- Up to 20 face databases with 100,000 face images in total
- 1-8 PoE Ports support ePoE & EoC



motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Video Metadata

With deep learning algorithm, Dahua Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

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.

Stereo Analysis by Camara

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.

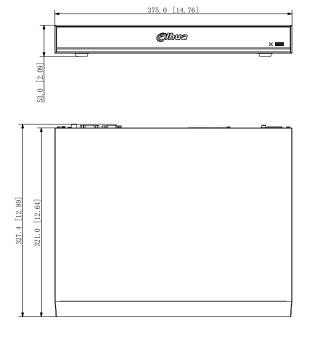
| Technical Specification | | Record Interval | 1–120 min (default: 60 min), Pre-record: 1–30 sec, Post-record: 10–300 sec | |
|--------------------------|---|----------------------|---|--|
| System | | Video Detection and | Video Detection and Alarm | |
| Main Processor | Multi-core embedded processor | Trigger Events | Alarm Out, Video Push, Email, Recording, PTZ, Tour, | |
| Operating System | Embedded LINUX | VC 1 - D 1 - V | Snapshot, Voice Prompt, Buzzer and Screen Tips Motion Detection, MD Zones: 396 (22 × 18), Video Loss, | |
| Perimeter Protection | | Video Detection | Tampering and Scene Change | |
| Performance | 16 channel, 10 IVS rules for each channel | Alarm input | 4 Channel | |
| Object classification | Human/Vehicle secondary recognition for tripwire and intrusion | Relay Output | 2 Channel | |
| Al Search | Search by target classification (Human, Vehicle) | Playback and Backup | p | |
| Face Recognition | | Sync Playback | 1/4/9/16 | |
| 2. (| Max 22 face pictures/sec processing (modeling and comparing) | Search Mode | Time/Date, Alarm, MD and Exact Search (accurate to second) | |
| 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). | Backup Mode | USB Device/Network | |
| Stranger Mode | | Third-party Support | | |
| Stranger Mode Al Search | Similarity threshold can be set manually. Up to 8 target face images search at same time, similarity | Third-party Support | Panasonic, Sony, Samsung, Axis, Pelco, Arecont, Onvif, Canon and more | |
| | threshold can be set for each target face image. Up to 20 face databases with 100,000 face images in | Network | | |
| Database Management | total. Name, gender, birthday, nationality, address, ID information can be added to each face picture. | Interface | 1 RJ-45 Ports (10/100/1000 Mbps) | |
| Database Application | Each database can be applied to video channels independently. | PoE | 8 ports (IEEE802.3af/at) 1-8 ports support ePoE & EoC | |
| Trigger Events | Buzzer, Voice Prompts, Email, Snapshot, Recording, Alarm Out, PTZ Activation, etc. | Network Function | HTTP, HTTPS, TCP/IP, IPv4/IPv6, UPnP, SNMP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PP0E,DDNS, FTP, Alarm | |
| Metadata | | | Server, IP Search (Support Dahua IP camera, DVR, NVS, etc.), P2P | |
| Face | Gender, age, glasses, beard, mouth mask, expression. | Max. User Access | 128 users | |
| Vehicle | Plate No., type, color, vehicle type, logo, plate color, | Mobile App | iPhone, iPad, Android | |
| | ornament, calling, seatbelt, region. | Interoperability | ONVIF 2.4, SDK, CGI | |
| Human Body | Top, top color, bottom, bottom color, hat, bag, gender, age, umbrella. | | | |
| Non-motor Vehicle | Type, color, number of passengers, helmet. | Internal HDD | 2 SATA III ports, up to 10 TB for a single HDD. The maximum HDD capacity varies with environment | |
| Al Search | Support search target video by metadata. | ocata | temperature | |
| Audio and Video | | eSATA | N/A | |
| 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 | | |
| Decoding Capability | 4-ch@8MP (30fps), 16-ch@1080P (30fps) | Power Supply | Single, AC100V–240V, 50–60 Hz | |
| Multi-screen Display | 1/4/8/9/16 | Power Consumption | NVR: <15.6W (Without HDD) | |
| Recording | | | PoE: Max 25.5W for single port 130W total rated power, 80% control for protection | |
| Bandwidth | 320 Mbps (160 Mbps when AI function enabled) | Fan | Smart fan, automatically adjust running speed | |
| Compression | Smart H.265+/H.265/Smart H.264+/H.264/MJPEG | Environmental | | |
| · | 16MP, 12MP, 8MP, 6MP, 5MP, 4MP, 3MP, 1080P, 1.3MP, | Operating Conditions | -10°C to +55°C (+14°F to +131°F), 86–106kpa | |
| Resolution | Resolution 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 | | |



| 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

