



DH-XVR5416L-I3

16 Channels Penta-brid 5M-N/1080P 1.5U 4HDDs WizSense Digital 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 Technology, a world-leading video-centric smart IoT solution and service provider, debuted its new XVR series, XVR5000-I3 Series featuring max.full-channel SMD Plus to benefit customers from Al upgrade (The number of channels differs depending on the model. Please refer to the specifications below for information on the number of channels.). This series has been developed to reduce false-alarm rates and the cost of human surveillance, thus bringing great value to customers in search of products with accurate human/vehicle alarm to raise the security level of various indoor and outdoor facilities.

Functions

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.

*Face Recognition takes effect when Face is selected in Al Mode.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improves alarm accuracy.

*Perimeter Protection takes effect when IVS&SMD is selected in AI Mode.

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.

*SMD Plus takes effect when SMD or IVS&SMD is selected in AI Mode.

- · H.265+/H.265 dual-stream video compression.
- · Supports 16-channel Al-Coding.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Max 24 channels IP camera inputs, each channel up to 8MP; Max 128
 Mbps incoming bandwidth.
- Up to 4 channels video stream (analog channel) Perimeter Protection.
- Up to 16 channels video stream (analog channel) SMD Plus.
- Up to 2 channels video stream (analog channel) human face recognition.
- · IoT & POS functionalities.



Scheduled AI

This technology allows multiple AI functions to be set for one channel based on time frames, eliminating the need to manually configure the system to switch between functions each time. Scheduled AI greatly increases efficiency and widens the number of scenarios that the device can be used in.

Smart Dual Illuminators

With Smart Dual Illuminators technology, you can select Smart Illumination Mode for the system to automatically switch between IR mode and white light mode. It allows white light to be turned on when a target is detected by the SMD Plus/Perimeter Protection function of

Al-enabled XVR. This significantly reduces light pollution at night. Together with other modes, including IR Mode and White Light Mode, the smart dual illumination technology can meet the requirements of a wide variety of scenes.

One-click Arming/Disarming

With just one click, you can enable or disable alarm linkages to show messages, send emails, output audio alarms and more, through the mobile app and platform.

Customizable Alarm Audio

Designed for your convenience, the TiOC alarm can be customized to meet your needs. It is flexible, allowing you to directly upload your customized audio through the mobile app and XVR.

AI Coding

Compared with H.265/H.264, Al coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.

Audio over Coax

The integrated design can reduce wiring troubles which makes it much more cost-effective and convenient for installation.



| | | | 2 LIDAMI 1 V.CA 1 TV | | |
|--|--|------------------------------|--|--|--|
| Technical Specification | | | 2 HDMI, 1 VGA, 1 TV Resolution VGA/HDMI2: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI1: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 | | |
| System | System | | | | |
| Main Processor | Embedded Processor | Video Output | × 720 It changes to 1920 × 1080, 1280 × 1024, 1280 × 720 when Face or IVS&SMD is selected in AI Mode. *Heterogeneous video sources output for HDMI2 is | | |
| Operating System | Embedded Linux | | | | |
| Operating Interface | Web; Local GUI | | configurable. | | |
| Perimeter Protection | | Multi-screen Display | When IP extension mode not enabled: 1/4/8/9/16 When IP extension mode enabled: 1/4/8/9/16/25 | | |
| Perimeter Performance of Al by Recorder (Number of Channels) | Advanced Model: 2 channels, 10 IVS for each channel General Model: 4 channels, 10 IVS for each channel | Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung | | |
| Face Detection | | Compression Standa | Compression Standard | | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; | Video Compression | Al Coding; H.265+; H.265; H.264+; H.264 | | |
| | beard | Audio Compression | G.711a; G.711u; PCM | | |
| Face Detection Performance of AI by | 2 channels (up to 12 face images/s) | Network | Network | | |
| Recorder (Number of Channels) | | Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P | | |
| Face Recognition | | Mobile Phone Access | iOS; Android | | |
| Face Database Capacity | Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be | Interoperability | ONVIF 21.06; CGI | | |
| | added to each face image | Browser | Chrome, IE9 or later, Firefox | | |
| Face Recognition | | Network Mode | Multi-address mode, Fault Tolerance, Load Balance | | |
| Performance of AI by Recorder (Number of Channels) | 2 channels | Recording Playback | | | |
| SMD Plus | | Record Mode | General, motion detection; intelligent; alarm; POS | | |
| SMD Plus by Recorder | 16 channels: Secondary filtering for human and motor vehicle SMD Plus, reducing false alarms caused by leaves, rain and lighting condition change | Recording Playback | 1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in Al Mode. | | |
| | | Backup Method | USB device and network | | |
| Audio and Video | | Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) | | |
| Analog Camera Input | 16 BNC ports, CVI access by default, supports HDCVI/ AHD/TVI/CVBS auto-detect | Storage | | | |
| | 1. CVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 1080p@25/30 fps, 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@25/30 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. | Disk Group | Yes | | |
| Camera Input | | Alarm | | | |
| | | General Alarm | Motion detection; video loss; tampering; local alarm | | |
| | Up to 24 channels of IPC access 8 IP channels by default + 16 channels (analog channels are converted to IP channels) incoming bandwidth: 128 Mbps, recording bandwidth: 128 Mbps and outgoing bandwidth: 128 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled. | Anomaly Alarm | No disk; storage error; disk full; camera offline; IP conflict; MAC conflict | | |
| IP Camera Input | | Intelligent Alarm | Face detection; face recognition; perimeter protection | | |
| | | Alarm Linkage | Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email | | |
| | Main stream: All channels 5M-N@(1 fps-10 fps); 4M-N@ | Ports | Ports | | |
| Encoding Capacity | (1 fps-15 fps); 1080p@(1 fps-15 fps); 1080N@(1 fps-25/30 fps); 720p@(1 fps-25/30 fps); 960H@(1 fps-25/30 fps); D1@(1 fps-25/30 fps); CIF@(1 fps-25/30 fps) Sub stream: D1@(1 fps-15 fps); CIF@(1 fps-15 fps) | TV Output | Yes | | |
| zirocama capacity | | Audio Input | 4-channel BNC (external) 16-channel BNC (coaxial audio) | | |
| Dual-stream | Yes | Audio Output | 1-channel BNC | | |
| Video Frame Rate | PAL: 1 fps–25 fps NTSC: 1 fps–30 fps | Two-way Talk | 1-channel BNC | | |
| Video Bit Rate | 32 kbps-6144 kbps | Alarm Input | 16 channels | | |
| Audio Sampling | 8 kHz, 16 bit | Alarm Output | 6 channels | | |
| Audio Bit Rate | 64 kbps | nam output | o diamete | | |
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Wiz Sense | DH-XVR5416L-I3

| HDD Interface | 4 SATA ports,up to 16TB, the maximum HDD capacity varies with environment temperature | | |
|---------------|---|--|--|
| eSATA | 1 | | |
| RS-232 | 1 port, for PC Communication & Keyboard | | |
| RS-485 | 1 port, for PTZ control | | |
| USB | 3 (1 front USB 2.0 port, 2 rear USB 3.0 ports) | | |
| HDMI | 2 | | |
| VGA | 1 | | |
| Network Port | 2 (10/100/1000 Mbps Ethernet port, RJ-45) | | |

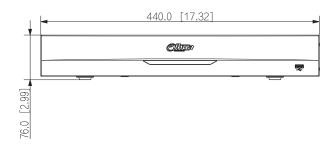
General

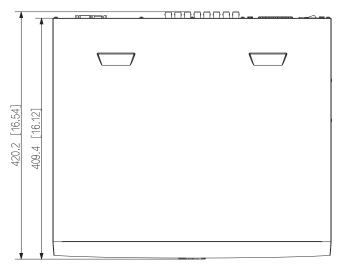
| Power Supply | 100-240 VAC, 50±2% Hz | | |
|-----------------------|---|--|--|
| Power Consumption | <15 W (without HDD) | | |
| Net Weight | 4.45 kg (9.81 lb) | | |
| Gross Weight | 6.75 kg (14.88 lb) | | |
| Product Dimensions | 1.5U, 440 mm × 420.2 mm × 76 mm (17.32" × 16.54" × 2.99") (W × D × H) | | |
| Packaging Dimensions | 529.0 mm × 499.0 mm × 211.0 mm 20.83" × 19.65" × 8.31" (W × D × H) | | |
| Operating Temperature | −10 °C to +55 °C (14 °F to +131 °F) | | |
| Operating Humidity | 10%-90% (RH) | | |
| Installation | Rack or desktop | | |
| Certifications | CE: CE-LVD: EN 60950-1/IEC 60950-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024 FCC: Part 15 Subpart B | | |

Ordering Information

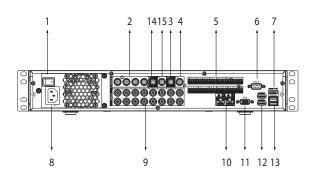
| Туре | Model | Description |
|--------------------------|----------------|-----------------------------|
| 16 Channels WizSense XVR | DH-XVR5416L-I3 | 1.5U DIGITAL VIDEO RECORDER |

Dimensions (mm[inch])





Panels



| 1 | Power Switch | 2 | AUDIO IN |
|----|--------------|----|---------------|
| 3 | AUDIO OUT | 4 | VIDEO OUT |
| 5 | Alarm In/Out | 6 | RS-232 Port |
| 7 | eSATA Port | 8 | Power Input |
| 9 | VIDEO IN | 10 | Network Ports |
| 11 | VGA Port | 12 | HDMI Ports |
| 13 | USB Ports | 14 | MIC IN |
| 15 | MIC OUT | | |