



DH-XVR5116H-I3

16 Channels Penta-brid 5M-N/1080P Mini 1U 1HDD 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 Al Mode

- H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 24 channels IP camera inputs, each channel up to 6MP; 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



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 AI-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.



Wiz Sense | DH-XVR5116H-I3

| Technical Specification | on | | 1 HDMI, 1 VGA | |
|---|--|---------------------------|--|--|
| System | | Video Output | VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × 720 | |
| Main Processor | Embedded processor | | It changes to 1920×1080 , 1280×1024 , 1280×720 when Face or IVS&SMD is selected in Al Mode. | |
| Operating System | Embedded Linux | 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 | |
| Operating Interface | Web; Local GUI | Third-party Camera Access | Onvif, Panasonic, Sony, Axis, Arecont, Pelco, Canon, | |
| Perimeter Protection | | | Sallisung | |
| Perimeter Performance AI by Recorder (Number of | Advanced Model: 2 channel, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel | Compression Standar | Al Coding/H.265+/H.265/H.264+/H.264 | |
| Channels) | | Audio Compression | G.711A/G.711u/PCM | |
| Face Detection | | Network | | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard | Network Protocol | HTTP, HTTPS, TCP / IP, IPv4, RTSP, UDP, SMTP, NTP, DHCP, DNS, DDNS, P2P | |
| Face Detection Performance of Aby Recorder (Number of Channels) | 2 channels (up to 12 face images/s) | Mobile Phone Access | iPhone, iPad, Android | |
| | | Interoperability | ONVIF 21.06, CGI | |
| Face Recognition | | Browser | Chrome, IE9 or above, Firefox | |
| Face Database Capacity | Up to 10 face databases with 10000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added to each face picture | Network Mode | Single-address mode | |
| | | Recording Playback | | |
| Face Recognition | to each race picture | Record Mode | General, motion detection; intelligent; alarm; POS | |
| Performance of AI by Recorder (Number of Channels) | 2 channels | Recording Playback | 1/4/9/16 It changes to 1/4/9 split when Face or IVS&SMD is selected in AI Mode. | |
| SMD Plus | | Backup Method | USB Device/Network | |
| 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 | Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) | |
| Audio and Video | | Alarm | Alarm | |
| Analog Camera Input | 16 BNC ports, CVI access by default, supports HDCVI/ | General Alarm | Motion detection, Video Loss, tampering | |
| Analog Camera Input | AHD/TVI/CVBS auto-detect 1. CVI: 5MP, 4MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps. 2. TVI: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps. | Anomaly Alarm | No disk, disk error, low space, offline, ip conflict, MAC conflict | |
| Camera Input | | Intelligent Alarm | Face detection, face recognition, perimeter protection | |
| IP Camera Input | 3. AHD: 5MP, 4MP, 1080p@25/30 fps, 720p@25/30 fps. 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 Al Function (IVS, SMD, FACE) will be disabled. | Alarm Linkage | Record, snapshot (panoramic), IPC external alarm output, access controller, voice prompt, buzzer, log, preset, email | |
| | | Ports | | |
| | | Audio Input | 1-channel RCA (external) 16-channel BNC (coaxial audio) | |
| | | Audio Output | 1-channel RCA | |
| Encoding Capacity | Main stream: All channel 5M-N (1 fps–10 fps); 4M-N/1080p (1 fps–15 fps); 1080N/720p/960H/D1/CIF (1 fps–25/30 fps) | Two-way Talk | Yes (share the same audio input with the first channel) | |
| | Sub stream: Supported (D1/CIF (1 fps–15 fps)). | HDD Interface | 1 SATA Port, up to 16TB, the maximum HDD capacity varies with environment temperature | |
| Dual-stream | Yes P∆I · 1 fns=25 fns | RS-485 | 1 Port, for PTZ Control | |
| Video Frame Rate | PAL: 1 fps–25 fps. NTSC: 1 fps–30 fps. | USB | 2 (1 front USB 2.0 port, 1 rear USB 3.0 port) | |
| Video Bit Rate | 32 Kbps–6144 Kbps Per Channel | HDMI | 1 | |
| Audio Sampling | 8 KHz, 16 bit | VGA | 1 | |
| Audio Bit Rate | 64 Kbps | Network Port | 1 (10/100/1000 Mbps Ethernet port, RJ-45) | |



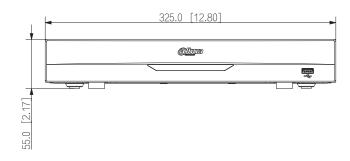
Wiz Sense | DH-XVR5116H-I3

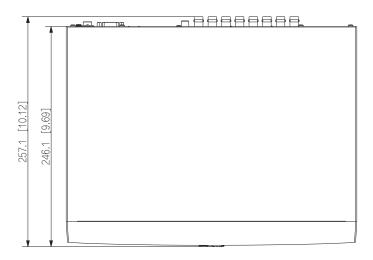
General

| Power Supply | DC12V, 2A | |
|-----------------------|---|--|
| Power Consumption | Lower than 12 W | |
| Net Weight | 1.15 kg (2.54 lb) | |
| Gross Weight | 1.95 kg (4.30 lb) | |
| Product Dimensions | Mini 1U, 325.0 mm × 257.1 mm × 55.0 mm 12.80" × 10.12" × 2.17" (W × D × H) | |
| Packaging Dimensions | 372.0 mm × 117.0 mm × 308.0 mm 14.65" × 4.61" × 12.13" (W × D × H) | |
| Operating Temperature | −10 °C to +55 °C (+14 °F to +131 °F) | |
| Operating Humidity | 10%-90% | |
| Installation | Desktop; (Some Models) | |
| 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 | |

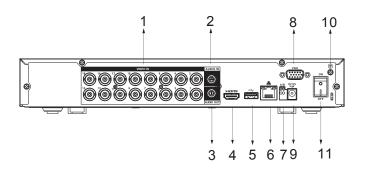
| Ordering Information | | | | |
|-----------------------------|----------------|--------------------------------|--|--|
| Туре | Model | Description | | |
| 16 Channels WizSense XVR | DH-XVR5116H-I3 | Mini 1U DIGITAL VIDEO RECORDER | | |

Dimensions (mm[inch])





Panels



- 1 Video In
- 3 Audio Out
- 5 USB Port
- 7 RS-485 Port
- 9 DC 12V Power Input
- 11 Power Switch
- 2 Audio In
- 4 HDMI Port
- 6 Network Port
- 8 VGA Port
- 10 Ground

Rev 002.000

© 2022 Dahua. All rights reserved. Design and specifications are subject to change without notice.