

DH-XVR5104HS-5M-I3

4CH Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder





Launched by Dahua Technology, WizSense is a series of Al products and solutions that adopt independent Al 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, XVR5000-5M-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.

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

- 4-channel SMD Plus for analog channels which allows the device to trigger accurate alarms for humans and vehicles.
- 4-channel perimeter protection for analog channels which supports tripwire and intrusion detection powered by AI.
- 1-channel face recognition for analog channels which supports face comparison.
- 4-channel Al Coding saves on storage and bandwidth while maintaining the details of targets in videos.
- · Supports HDCVI, AHD, TVI, CVBS and IP video input.
- Supports up to 6-channel IP camera input and each channel can be up to 6 MP. The incoming bandwidth reaches 32 Mbps.
- Smart H.265+ and H.265 dual-stream video compression.
- · IoT and POS capabilities.



Smart Dual Light

With Smart Dual Light 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 light 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-ABR

Compared with H.265, Al coding-ABR can save 50% on storage costs, and save bit rate for complex scenes, which can prioritize image quality in dynamic scenes.

HDMI (4K)

The HDMI port can support up to 4K output, delivering clear and highly detailed images.

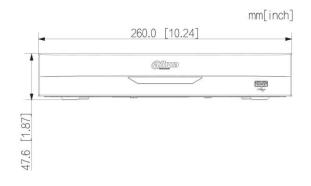
| Technical Specification | | Video Bit Rate | 32 kbps-6144 kbps | |
|---|--|---------------------------|--|--|
| System | | Audio Sampling | 8 kHz, 16 bit | |
| Main Processor | Industrial-grade processor | Audio Bit Rate | 64 kbps | |
| Operating System | Embedded Linux | | 1 HDMI, 1 VGA | |
| Operating Interface | Web; Local GUI | Video Output | HDMI: 3840 × 2160, 2560 × 1440, 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 | |
| Perimeter Protection | | Multi-screen Display | When IP extension mode not enabled: 1/4 | |
| Perimeter Performance AI by Recorder (Number of | Advanced Mode: 2 channels, 10 IVS rules for each channel | Third-party Camera Access | When IP extension mode enabled: 1/4/6 Panasonic; Sony; Hanwha; Axis; Arecont; ONVIF | |
| Channels) | General Mode: 4 channels, 10 IVS rules for each channel | Compression Standar | Compression Standard | |
| Face Detection | | Video Compression | Al Coding; Smart H.265+; H.265; Smart H.264+; H.264 | |
| Face Attributes | 6 attributes | Audio Compression | G.711a; G.711u; PCM | |
| Face Detection Performance of AI by | 1 channel (up to 8 face images/s each channel) | | 3.7.114, 5.7.114, 1.5.11 | |
| Recorder (Number of Channels) | | Network | Network HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; | |
| Face Recognition | | Network Protocol | DNS; SMTP; UPnP; IP Filter; FTP; DDNS; SNMP; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.) | |
| Face Database Capacity | Up to 10 face databases with 10,000 images. | Mobile Phone Access | iOS; Android | |
| Face Recognition Performance of AI by | 1 channel | Interoperability | ONVIF 23.12 (Profile T; Profile S; Profile G); CGI; SDK | |
| Recorder (Number of Channels) | | Browser | Chrome; IE; Safari; Edge; Firefox | |
| SMD Plus | | Recording Playback | | |
| | 4 channels: Secondary filtering for human and vehicle, reducing false alarms caused by leaves, rain and lighting condition change | Record Mode | General; alarm; motion detection; intelligent; POS | |
| SMD Plus by Recorder | | Recording Playback | 1/4 | |
| Audio and Video | | Backup Method | USB device and network | |
| Analog Camera Input | 4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect | Playback Mode | Instant playback; general playback; event playback; tag playback; smart playback | |
| | 1. CVI: 5 MP@25 fps; 5 MP@20 fps; 5 MP@10/12.5 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@50/60 fps; 720p@25/30 fps. 2. TVI: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 5 MP@20 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. Up to 6 channels of IPC access 2 IP channels by default + 4 channels (analog channels are converted to IP channels) Incoming bandwidth: 32 Mbps, recording bandwidth: 32 Mbps and outgoing bandwidth: 32 Mbps *After IP extension is enabled, the AI Function (IVS, SMD, FACE) will be disabled. | Alarm | Alarm | |
| Camera Input IP Camera Input | | General Alarm | Motion detection; alarm box; HDCVI alarm; camera external alarm; network alarm; PIR alarm | |
| | | Anomaly Alarm | Error (no disk, disk error, low space, low quota space; network disconnection; IP conflict; MAC conflict); video loss; video tampering; camera offline | |
| | | Intelligent Alarm | Face detection; face recognition; perimeter protection; SMD Plus | |
| | | Alarm Linkage | Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log; preset; email | |
| | Encode Enhancement enabled : | Ports | Ports | |
| | Main stream: 5 MP@(1 fps-12 fps); 5M-N/4M-N/1080p@(1 fps-25 fps); 1080N/720p/960H/D1/CIF@(1 fps-25/30 fps) Sub stream: D1/CIF@(1 fps-15 fps) It changes to D1/CIF@(1 fps-7 fps) when Main stream is 5 MP/5M-N. *When Encode Enhancement is enabled, Face Recognition, Face Detection and Perimeter Protection cannot be used. | Audio Input | 1-channel RCA 4-channel BNC (Coaxial Audio) | |
| Encoding Capacity | | Audio Output | 1-channel RCA | |
| | | Two-way Talk | Yes (share the same audio input with the first channel) | |
| | | Disk Interface | 1 SATA port, up to 16 TB. This limit varies depending on the environment temperature. | |
| | Encode Enhancement disabled: Main stream: 5M-N@(1 fps —12 fps); 4M-N/1080p@(1 fps—15 fps); 1080N/720p/960H/D1/CIF@(1 fps—25/30 fps) Sub stream: D1/CIF@(1 fps—15 fps) | RS-485 | 1 | |
| | | USB | 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) | |
| | | HDMI | 1 | |
| Dual-stream | Yes | VGA | 1 | |

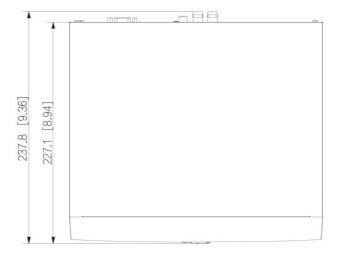
Wiz Sense | DH-XVR5104HS-5M-I3

| Network Port | 1 (10/100 Mbps Ethernet port, RJ-45) | |
|-----------------------|--|--|
| General | | |
| Power Supply | 12 VDC, 1.5 A | |
| Power Consumption | <5 W (without HDD) | |
| Net Weight | 0.84 kg (1.85 lb) | |
| Gross Weight | 1.37 kg (3.02 lb) | |
| Product Dimensions | 260.0 mm × 237.8 mm × 47.6 mm (10.24" × 9.36" × 1.87") (W × D × H) | |
| Packaging Dimensions | 344.0 mm × 89.0 mm × 287.0 mm (13.54" × 3.50" × 11.30") (W × D × H) | |
| Operating Temperature | -10 °C to +55 °C (+14 °F to +131 °F) | |
| Storage Temperature | -20 °C to +60 °C (-4 °F to +140 °F) | |
| Operating Humidity | 10%–90% (RH), non-condensing | |
| Installation | Desktop | |
| Certifications | CE-LVD: IEC 62368-1:2014 CE-EMC: EN IEC 61000-3-2:2019, EN 61000-3- 3:2013+A1:2019, EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, EN 55024:2010+A1:2015, EN 50130-4:2011+A1:2014 | |
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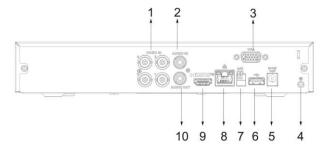
| Ordering Information | | | | |
|---------------------------|--------------------|---|--|--|
| Туре | Model | Description | | |
| DIGITAL VIDEO RECORDER | DH-XVR5104HS-5M-I3 | 4CH Penta-brid 5MP Compact 1U 1HDD WizSense Digital Video Recorder | | |

Dimensions (mm[inch])





Panels



- 1 VIDEO IN
- VGA Port
- Power Input
- RS-485 Port
- **HDMI** Port
- 2 AUDIO IN, RCA Connector
- Ground
- 6 **USB Port**
- Network Port
- 10 AUDIO OUT, RCA Connector