

DH-XVR5104H-I3

4CH Penta-brid 5MP Value/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 AI 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

Real 5MP Mode

This mode can enhance XVR preview and playback resolution to Real 5MP. Enable more clarity image experience.

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 AI Mode.*

** The parameters and datasheets below can only be applied to Hardware Version 3.0.*

- 4-ch SMD Plus for analog channel to achieve accurate alarm for human and vehicles.
- 4-ch Perimeter Protection for analog channel to detect tripwire and intrusion violation powered by AI.
- 1-ch Face Recognition for analog channel to realize face comparison.
- 4-ch AI Coding to save storage and bandwidth costs while maintaining target details.
- Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- Up to 6-ch IP camera inputs and each channel supports up to 6 MP. Max 32 Mbps incoming bandwidth.
- Smart H.265+/H.265 dual-stream video compression.
- IoT & POS functionalities.



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.

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 AI-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.

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, AI coding can reduce more than 50% bit rate and storage requirements without loss of decoding compatibility, providing clear human and vehicle details.



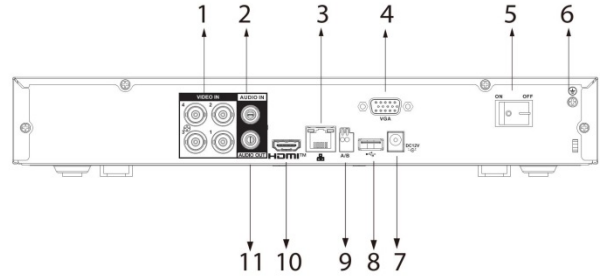
Technical Specification

| | |
|---|--|
| System | |
| Main Processor | Industrial-grade processor |
| Operating System | Embedded Linux |
| Operating Interface | Web; Local GUI |
| Perimeter Protection | |
| Perimeter Performance AI by Recorder (Number of Channels) | Advanced Model: 2 channels, 10 IVS rules for each channel General Model: 4 channels, 10 IVS rules for each channel |
| Face Detection | |
| Face Attributes | 6 attributes |
| Face Detection Performance of AI by Recorder (Number of Channels) | 1 channel (up to 8 face images/s each channel) |
| Face Recognition | |
| Face Database Capacity | Up to 10 face databases with 10,000 images. |
| Face Recognition Performance of AI by Recorder (Number of Channels) | 1 channel |
| SMD Plus | |
| SMD Plus by Recorder | 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change |
| Audio and Video | |
| Analog Camera Input | 4 BNC ports, supports HDCVI/AHD/TVI/CVBS auto-detect |
| Camera Input | 1. CVI: 5MP@20fps, 5MP@25fps, 5MP@10/12.5fps, 4MP@25/30fps, 1080p@25/30fps, 720p@50/60fps, 720p@25/30fps. 2. TVI: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps. 3. AHD: 5MP@20fps, 4MP@25/30fps, 1080p@25/30fps, 720p@25/30fps. |
| IP Camera Input | 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 channels are added beyond the existing channels, the AI Function (IVS、SMD、Face) will be disabled. |
| Encoding Capacity | Main stream: 5MP Mode: All channel 5MP@(1-6fps) 5M-N Mode: All channel 5M-N@(1-12fps);4M-N,1080p@(1-15fps); 1080N, 720p, 960H, D1,CIF@(1-25/30fps) Sub stream: D1, CIF@(1-15fps) |
| Dual-stream | Yes |
| Video Bit Rate | 32 kbps-6144 kbps |
| Audio Sampling | 8 kHz, 16 bit |
| Audio Bit Rate | 64 kbps |
| Video Output | 1 HDMI, 1 VGA HDMI: 1920 × 1080, 1280 × 1024, 1280 × 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 |

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|-----------------------------|--|
| Multi-screen Display | When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6 |
| Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Samsung |
| Compression Standard | |
| Video Compression | AI Coding; Smart H.265+; H.265; Smart H.264+; H.264 |
| Audio Compression | G.711a; G.711u; PCM |
| Network | |
| Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; IPv6; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; FTP; DDNS; Alarm Server; P2P; Auto Registration; IP Search (Supports IP camera, DVR, NVS, etc.) |
| Mobile Phone Access | IOS; Android |
| Interoperability | ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK |
| Browser | Chrome; Firefox; IE 9 or later |
| Network Mode | Single-address mode |
| Recording Playback | |
| Record Mode | General, motion detection; intelligent; alarm; POS |
| Recording Playback | Up to 4 channels |
| Backup Method | USB device and network |
| Playback Mode | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection) |
| Alarm | |
| General Alarm | Motion detection; alarm box; 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 |
| Alarm Linkage | Record; snapshot (panoramic); IPC external alarm output; audio; buzzer; log, preset; email |
| Ports | |
| Audio Input | 1-channel RCA 4-channel BNC (Coaxial Audio) |
| Audio Output | 1-channel RCA |
| Two-way Talk | Yes (share the same audio input with the first channel) |
| HDD Interface | 1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature. |
| RS-485 | 1 |
| USB | 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) |
| HDMI | 1 |
| VGA | 1 |
| Network Port | 1 (10/100 Mbps Ethernet port, RJ-45) |
| General | |
| Power Supply | 12 VDC, 1.5A |
| Power Consumption | <5 W (without HDD) |
| Net Weight | 1.29 kg (2.84 lb) |
| Gross Weight | 1.74 kg (3.84 lb) |

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|-----------------------|---|
| Product Dimensions | 325.0 mm x 257.1 mm x 55.0 mm (12.80" x 10.12" x 2.17") (W x D x H) |
| Packaging Dimensions | 372.0 mm x 117.0 mm x 308.0 mm (14.65" x 4.61" x 12.13") (W x D x 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 | ≤93% (RH) |
| Installation | Rack or 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 |

Panels



- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 Network Port
- 4 VGA Port
- 5 Power Switch
- 6 Ground
- 7 Power Input
- 8 USB Port
- 9 RS-485 Port
- 10 HDMI Port
- 11 AUDIO OUT, RCA Connector

Ordering Information

| Type | Part Number | Description |
|------------------------|----------------|---|
| DIGITAL VIDEO RECORDER | DH-XVR5104H-I3 | 4CH Penta-brid 5MP Value/1080P Mini 1U 1HDD WizSense Digital Video Recorder |

Dimensions (mm[inch])

