



DH-XVR5104HS-I3

4 Channel Penta-brid 5M-N/1080p Compact 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 featuring full-channel SMD Plus (except for 32-channel devices) to benefit customers from AI upgrade. The series are designated to reduce false-alarm rates and human surveillance costs, 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 Time Face Recognition

Video stream real time face recognition. Facial attributes analysis features including gender, age, expression, glasses, moustache, mouth mask. Identify people and also capture, record faces with metadata. Facial feature filtering while real time display, only show faces with target features.

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

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.

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

SMD Plus

SMD Plus, referred to as Smart Motion Detection Plus, which is an upgrading version of SMD that greatly improves the alarm accuracy by loading deep-learning algorithm. It analyzes person and vehicle shapes

- H.265+/H.265 dual-stream video compression
- · Supports Full-channel AI-Coding
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs
- Max 6 channels IP camera inputs, each channel up to 6MP; Max
 32 Mbps incoming bandwidth
- Up to 1 channel video stream (analog channel) Perimeter Protection
- Up to 4 channels video stream (analog channel) SMD Plus
- Up to 1 channel video stream (analog channel) human face recognition
- · IoT & POS functionalities



based on motion detection and send alarms only when person and vehicle intrudes.

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

AI Coding

Compared with H.265, AI codec can reduce up to 50% bit rate and storage requirements while have no loss of decoding compatibility, providing clear human and vehicle details.

Smart H.265+

Smart Codec, H.265+ can reduce up to 90% bit rate and storage requirements compared with H.264 without having to invest in new cameras.

HDCVI/AHD/TVI/CVBS Auto-detect

The XVR can auto recognize the signal of front-camera without any setting. It makes operation more friendly and convenient.

High Definition Camera Input

The XVR supports up to 5MP HDCVI camera and 6MP IP camera input.

Coaxial Audio/Upgrade/Alarm

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

Long Distance Transmission

The HDCVI system supports long distance transmission over coaxial cable and UTP, max. 700 m for 4K/4MP, 800 m for 1080p and 1200 m for 720p.

Al Search

Extract and classify person and vehicles from massive video data, easy for end users to trace historical information and analyze. Person & Vehicle optional for playback to achieve quick target search, saving event retrieval tme.

| Technical Specification | on | | Audio Compression | G.711A; G.711U; PCM |
|--|---|---|------------------------------------|---|
| System | | | Audio Sample Rate | 8 KHz, 16 bit per channel |
| Main Processor | Embedded processor | | Audio Bit Rate | 64 kbps per channel |
| Operating System | Embedded linux | | Display | |
| Perimeter Protection | | | Interface | 1 HDMI; 1 VGA |
| Performance | 1 channel, 10 IVS for each channel | | Resolution | 1920 × 1080; 1280 × 1024; 1280 × 720 |
| Object classification | Human/Vehicle secondary recognition for tripwire and intrusion | | Multi-screen Display | When IP extension mode not enabled: 1/4 When IP extension mode enabled: 1/4/6 |
| Al Search | Search by target classification (Human, Vehicle) | | OSD | Camera title; Time; Video loss; Camera lock; Motion detection; Recording |
| Face Recognition | | | Network | detection, necorating |
| | Max 8 face pictures/sec processing | | Interface | 1 RJ-45 Port (100 MB) |
| Performance | 1 channel video stream face recognition, only support analog camera | | Network Function | HTTP; HTTPS; TCP/IP; IPv4/IPv6; Wi-Fi; 3G/4G; SNMP; UPnP; RTSP; UDP; SMTP; NTP; DHCP; DNS; IP Filter; |
| Stranger Mode | Detect strangers' faces (not in device's face database). Similarity threshold can be set manually | | Network Pullction | PPPoE; DDNS; FTP; Alarm Server; P2P; IP Search (Supports Dahua IP camera, DVR, NVS, etc.) |
| Al Search | Up to 8 target face images search at same time, similarity threshold can be set for each target face image | | Max. User Access | 128 users |
| Database Management | Up to 10 face databases with 10,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries®ions and state can be added | | Smart Phone | iPhone; iPad; Android |
| | | | Interoperability | ONVIF 16.12, CGI Conformant |
| Database Application | Each database can be applied to video channels | ach face picture n database can be applied to video channels | | Alarm |
| | independently Buzzer, Voice Prompts, Email, Snapshot, Recording, | | Trigger Events | Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips |
| Trigger Events | Alarm Out, PTZ Activation, etc. | | Video Detection | Motion Detection, MD Zones: 396 (22 \times 18), Video Loss, Tampering and Diagnosis |
| SMD Plus | | | Alarm input | N/A |
| Performance | 4 channels | | Relay Output | N/A |
| Al Search Search by target classification (Human, Vehicle) | | | Playback and Backup | |
| Video and Audio | Ashanala DNG | | Playback | 1/4 |
| Analog Camera Input HDCVI Camera Input | 4 channels, BNC 5MP, 4MP, 1080p@ 25/30 fps, 720p@ 50/60 fps, 720p@ | | Search Mode | Time/Date, Alarm, MD and Exact Search (accurate to second) |
| AHD Camera Input | 25/30 fps 5MP, 4MP, 1080p@ 25/30 fps, 720p@ 25/30 fps | | Playback Function | Play; Pause; Stop; Rewind; Fast play; Slow Play; Next File; Previous File; Next Camera; Previous Camera; Full Screen; Repeat; Shuffle; Backup Selection; Digital Zoom |
| TVI Camera Input | 5MP, 4MP, 1080p@ 25/30 fps, 720p@ 25/30 fps | | Backup Mode | USB Device/Network |
| CVBS Camera Input | PAL/NTSC | | Storage | |
| IP Camera Input | 4+2 channels, each channel up to 6MP | | Internal HDD | 1 SATA port, up to 6 TB capacity |
| Audio In/Out | 1/1, RCA | | eSATA | N/A |
| Two-way Talk | Reuse audio in/out, RCA | | Auxiliary Interface | |
| Recording | | | USB | 2 USB ports (USB 2.0) |
| Compression | Al Coding/H.265+/H.265/H.264+/H.264 | | RS485 | 1 port, for PTZ control |
| Resolution | 5M-N; 4M-N; 1080p; 1080N; 720p; 960H; D1; CIF | | RS232 | N/A |
| Record Rate | 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) | | Electrical | |
| | Sub stream: D1/CIF (1 fps–15fps) | | Power Supply | DC 12V/1.5A |
| Bit Rate | 32 kbps-6144 kbps per channel | | Power Consumption (Without HDD) | <4W |
| Record Mode | Manual; Schedule (General, Continuous); MD (Video detection: Motion Detection, Video Loss, Tampering); Alarm; Stop | | Construction | |
| Record Interval | 1min-60min (default: 60 min), Pre-record: $1s30s$, Post-record: $10s300s$ | | Dimensions | Compact 1U, 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87") |

Wiz Sense | DH-XVR5104HS-I3

| Net Weight (without HDD) | 0.84 kg (1.85 lb) | | | |
|-----------------------------|---|--|--|--|
| Gross Weight | 1.37 kg (3.02 lb) | | | |
| Installation | Desktop installation | | | |
| Environmental | | | | |
| Operating Conditions | -10°C to +45°C (+14°F to +113°F), 0%–90% (RH) | | | |
| Storage Conditions | -20°C to +70°C (-4°F to +158°F), 0%–90% (RH) | | | |
| Third-party Support | | | | |
| Third-party Support | Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and more | | | |

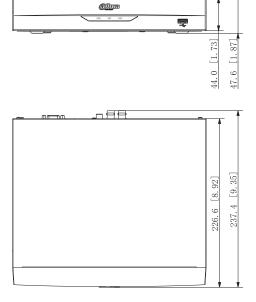
Certifications

| | FCC: Part 15 Subpart B |
|----------------|--|
| 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 |

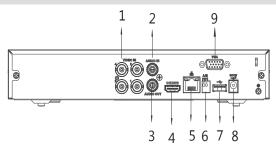
| Ordering Information | | | | | |
|---------------------------|-----------------|---|--|--|--|
| Туре | Model | Description | | | |
| 4 Channel WizSense XVR | DH-XVR5104HS-I3 | Compact 1U WizSense Digital Video Recorder | | | |

260.0 [10.24]

Dimensions (mm[inch])



Panels



- 1 VIDEO IN
- 2 AUDIO IN, RCA Connector
- 3 AUDIO OUT, RCA Connector
- 4 HDMI Interface
- 5 Network Interface
- 6 RS485 Interface
- 7 USB Interface
- 8 DC 12V Power Input
- 9 VGA Interface