



DH-XVR5104HE-4KL-I3

4CH Penta-brid 4K Value/5MP 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, XVR5000-4KL-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 conflicts with SMD Plus and Perimeter Protection.

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.

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.

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

- · H.265+/H.265 dual-stream video compression.
- · Supports all-channel AI Coding.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- · Max 8 channels IP camera inputs, each channel up to 8MP; Max 64 Mbps incoming bandwidth.
- · Up to 4 channel video stream (analog channel) Perimeter Protection.
- · Up to 4 channels video stream (analog channel) SMD Plus.
- \cdot 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.

| Technical Specification | | | 1 HDMI, 1 VGA HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 × | |
|--|--|---------------------------|---|--|
| System | System | | 720 VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 | |
| Main Processor | Industrial-grade processor | | *Simultaneous/heterogeneous video sources output for VGA and HDMI is configurable | |
| Operating System | Embedded Linux | Multi-screen Display | When IP extension mode not enabled: 1/4 | |
| Operating Interface | Web; Local GUI | | When IP extension mode enabled: 1/4/8/9 | |
| Perimeter Protection | | Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Samsung | |
| Perimeter Performance Al by Recorder (Number of | Advanced Model: 2 channels, 10 IVS for each channel | Compression Stand | Compression Standard | |
| Channels) | General Model: 4 channels, 10 IVS for each channel | Video Compression | Al Coding; Smart H.265+; H.265; Smart H.264+; H.264 | |
| Face Detection | | Audio Compression | G.711a; G.711u; PCM | |
| Face Attributes | Gender; age group; glasses; expressions; face mask; beard | Network | | |
| Face Detection Performance of AI by Recorder (Number of | 2 channels (up to 8 face images/s each channel) | Network Protocol | HTTP; HTTPS; TCP/IP; IPv4; IPv6; RTSP; UDP; NTP; DHCP; DNS; SMTP; UPnP; IP Filter; DDNS; Alarm Server; P2P; Auto Registration | |
| Channels) | | Mobile Phone Access | iOS; Android | |
| Face Recognition | | Interoperability | ONVIF 22.12(Profile T; Profile S; Profile G); CGI; SDK | |
| Face Database Capacity Face Recognition Performance of Al by | Up to 10 face databases with 20,000 face images in total. | Browser | Chrome IE9 or later Firefox | |
| Recorder (Number of | 2 channels | Network Mode | Single-address mode | |
| Channels) SMD Plus | | Recording Playback | | |
| SIVID FIUS | | Record Mode | General; motion detection; intelligent; alarm; POS | |
| SMD Plus by Recorder | 4 channels: Secondary filtering for human and motor vehicle, reducing false alarms caused by leaves, rain and lighting condition change | 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- | Playback Mode | Instant playback; general playback; event playback; tag playback;smart playback (face and motion detection) | |
| | detect | Alarm | Alarm | |
| | 1. CVI: 4K@25/30 fps; 6 MP@20 fps; 5 MP@20 fps; 5 MP@25 fps; 4 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps; 720p@50/60 fps. 2. TVI: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps. 3. AHD: 4K@15 fps; 5 MP@20 fps; 4 MP@25/30 fps; 3 MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps | General Alarm | Motion detection; video loss; video tampering; local alarm | |
| Camera Input | | Anomaly Alarm | No disk; disk error; disk full; offline; IP conflict; MAC conflict | |
| | | Intelligent Alarm | Face detection; face recognition; perimeter protection | |
| | Up to 8 channels of IPC access 4 IP channels by default + 4 channels (analog channels are converted to IP channels) incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps *After IP channels are added beyond the existing channels, the AI Function (IVS, SMD, FACE) will be disabled | Alarm Linkage | Record; snapshot (panoramic); local alarm output; IPC external alarm output; voice prompt; buzzer; log; preset; email | |
| | | Ports | | |
| IP Camera Input | | Audio Input | 4-channel RCA 4-channel BNC (Coaxial Audio) | |
| | | Audio Output | 1-channel RCA | |
| | Main stream: | Two-way Talk | Yes (share the same audio input with the first channel) | |
| Engading Council | 4K@(1 fps-7 fps); 6 MP@(1 fps-10 fps); 5 MP@(1 fps-12 fps); 4K-N, 4 MP, 3 MP@(1 fps-15 fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1 fps-25/30 fps); Sub stream: 960H@(1 fps-15 fps); D1/CIF@(1 fps-25/30 fps) | Alarm Input | 8 channels | |
| Encoding Capacity | | Alarm Output | 3 channels | |
| Dual-stream | Yes | HDD Interface | 1 SATA port, up to 16TB capacity. The maximum HDD capacity varies with environment temperature. | |
| Video Bit Rate | 32 kbps-6144 kbps | RS-485 | 1 port, for PTZ control | |
| Audio Sampling | 8 kHz, 16 bit | USB | 2 (1 front USB 2.0 port, 1 rear USB 2.0 port) | |
| | | HDMI | 1 | |
| Audio Bit Rate | 64 kbps | | | |

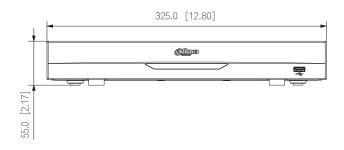
| VGA | 1 |
|--------------|--------------------------------------|
| Network Port | 1 (10/100 Mbps Ethernet port, RJ-45) |

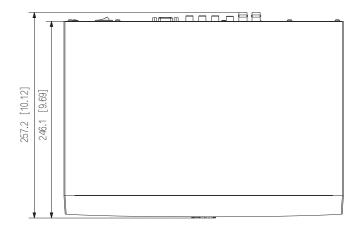
General

| Power Supply | 12 VDC , 2 A | |
|-----------------------|---|--|
| Power Consumption | <7 W (without HDD) | |
| Net Weight | 1.20 kg (2.65 lb) | |
| Gross Weight | 1.80 kg (3.97 lb) | |
| Product Dimensions | 325.0 mm × 257.2 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) | |
| Storage Temperature | -20 °C to +60 °C (-4 °F to +140 °F) | |
| Operating Humidity | ≤93% (RH) | |
| Installation | Rack or desktop | |
| Certifications | CE: CE-LVD: IEC 62368-1 CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN 50130, EN 55024, EN 55035 FCC: Part 15 Subpart B | |

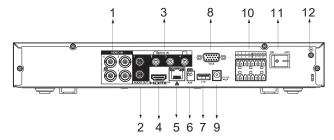
| Ordering Information | | | | | |
|---------------------------|-------------------------|--|--|--|--|
| Туре | Model | Description | | | |
| DIGITAL VIDEO RECORDER | DH-XVR5104HE- 4KL-I3 | 4CH Penta-brid 4K Value/5MP Mini 1U 1HDD WizSense Digital Video Recorder | | | |

Dimensions (mm[inch])





Panels



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