

## DH-XVR5108HS-4KL-I3

### 8 Channels Penta-brid 4K-N/5MP 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, XVR5000-4KL-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 to recognize the person identity.

\*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.

- · H.265+/H.265 dual-stream video compression.
- · Supports Full-channel AI Coding.
- · Supports HDCVI/AHD/TVI/CVBS/IP video inputs.
- · Max 16 channels IP camera inputs, each channel up to 8MP; Max 128 Mbps incoming bandwidth.
- · Up to 8 channels video stream (analog channel) Perimeter Protection.
- · Up to 8 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.

#### **Al 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.

#### **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<br>HDMI: 3840 × 2160, 1920 × 1080, 1280 × 1024, 1280 ×<br>720<br>VGA: 1920 × 1080, 1280 × 1024, 1280 × 720 |  |
|--|---|---------------------------|--|--|
| System   |   | Video Output              |  |  |
| Main Processor   | Industrial-grade processor  |                           | *Simultaneous/heterogeneous video sources output f<br>VGA and HDMI is configurable.                                      |  |
| Operating System   | Embedded Linux  | M. III.                   | When IP extension mode not enabled: 1/4/8/9  |  |
| Operating Interface  | Web; Local GUI  | Multi-screen Display      | When IP extension mode enabled: 1/4/8/9/16   |  |
| Perimeter Protection   |   | Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Samsung   |  |
| Perimeter Performance Al<br>by Recorder (Number of<br>Channels)            | Advanced Model: 2 channels, 10 IVS for each channel General Model: 8 channels, 10 IVS for each channel  | Compression Standa        | Compression Standard   |  |
|  |   | 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<br>Performance of AI by<br>Recorder (Number of<br>Channels) | 2 channels (up to 12 face images/s each channel) )  | Network Protocol          | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P  |  |
|  |   | Mobile Phone Access       | IOS; Android   |  |
| Face Recognition   |   | Interoperability          | ONVIF 21.12; CGI   |  |
| Face Database Capacity   | Up to 10 face databases with 20,000 face images in total. Name, gender, birthday, address, certificate type, cerificate No., countries & regions and state can be added to each face image  | Browser                   | Chrome, IE9 or later, Firefox  |  |
|  |   | Network Mode              | Single-address mode  |  |
| Face Recognition   | 2 channels  | Recording Playback        |  |  |
| Performance of AI by<br>Recorder (Number of                                |   | Record Mode               | General, motion detection; intelligent; alarm; POS   |  |
| Channels)  |   | Recording Playback        | 1/4/9  |  |
| SMD Plus   |   | Backup Method             | USB device and network   |  |
| SMD Plus by Recorder   | 8 channels: Secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and  | Playback Mode             | Instant playback, general playback, event playback, tag playback, smart playback (face and motion detection)             |  |
| lighting condition change  |   | Alarm                     | Alarm  |  |
| Audio and Video  |   | General Alarm             | Motion detection; video loss; tampering; local alarm   |  |
| Analog Camera Input  | 8 BNC ports, supports HDCVI/AHD/TVI/CVBS autodetect   | Anomaly Alarm             | No disk; storage error; disk full; camera offline; IP conflict; MAC conflict   |  |
| Camera Input   | 1. CVI: 4K@25/30 fps; 6 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   | Intelligent Alarm         | Face detection; face recognition; perimeter protection   |  |
|  |   | Alarm Linkage             | Record; snapshot (panoramic); IPC external alarm output; access controller; voice prompt; buzzer; log; preset; email     |  |
|  | MP@25/30 fps; 1080p@25/30 fps; 720p@25/30 fps.  | Ports                     |  |  |
| IP Camera Input  | Up to 16 channels of IPC access 8 IP channels by default + 8 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 AI Function (IVS, SMD, FACE) will be disabled. | Audio Input               | 1-channel RCA<br>8-channel BNC (Coaxial Audio)   |  |
|  |   | Audio Output              | 1-channel RCA  |  |
|  |   | Two-way Talk              | Yes (share the same audio input with the first channel)  |  |
| Encoding Capacity  | Main stream: 4K@(1fps-7fps); 6 MP@(1fps-10fps); 5 MP@(1fps-12fps); 4K-N, 4 MP, 3 MP@(1fps-15fps); 4M-N, 1080p, 720p, 960H, D1,CIF@(1fps-25/30fps); Sub stream: 960H@(1fps-15fps); D1/CIF@(1fps-   | HDD Interface             | 1 SATA port, up to 16TB capacity for each disk. The maximum HDD capacity varies with environment temperature.            |  |
|  |   | RS-485                    | 1 port, for PTZ control  |  |
| Dual-stream  | 25/30fps)<br>Yes  | USB                       | 2 (1 front USB 2.0 port, 1 rear USB 3.0 port)  |  |
| Video Bit Rate   | 32 kbps-6144 kbps   | HDMI                      | 1  |  |
|  |   | VGA                       | 1  |  |
| Audio Sampling   | 8 kHz, 16 bit   | Network Port              | 1 (10/100/1000 Mbps Ethernet port, RJ-45)  |  |
| Audio Bit Rate   | 64 kbps   |                           |  |  |

#### General

8 Channels

WizSense XVR

| Power Supply          | DC 12V, 2A  |  |  |
|-----------------------|---|--|--|
| Power Consumption     | <10 W (without HDD)   |  |  |
| Net Weight            | 1.00 kg (2.21 lb)   |  |  |
| Gross Weight          | 1.40 kg (3.09 lb)   |  |  |
| Product Dimensions    | 260.0 mm × 237.9 mm × 47.6 mm (10.24" × 9.37" × 1.87")<br>(W × D × H)   |  |  |
| Packaging Dimensions  | 333.0 mm $\times$ 89.0 mm $\times$ 315.0 mm (13.12" $\times$ 3.51" $\times$ 12.41") (W $\times$ D $\times$ H)                       |  |  |
| Operating Temperature | -10 °C to +55 °C (14 °F to +131 °F)   |  |  |
| Operating Humidity    | 10%-90% (RH)  |  |  |
| Installation          | Rack or desktop   |  |  |
| Certifications        | CE: CE-LVD: EN 60950-1/IEC 60950-1<br>CE-EMC: EN 61000-3-2, EN 61000-3-3, EN 55032, EN<br>50130, EN 55024<br>FCC: Part 15 Subpart B |  |  |

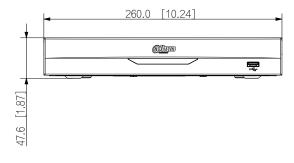
# Ordering Information Type Model Description

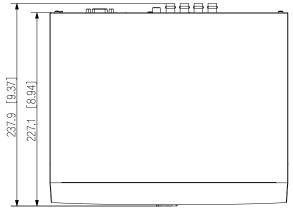
Compact 1U DIGITAL VIDEO

RECORDER

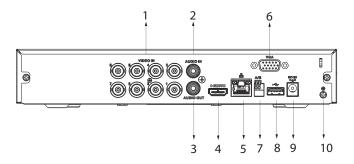
DH-XVR5108HS-

#### Dimensions (mm[inch])





#### **Panels**



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