

## EZIP-KIT/XVR1B08H-I/8-HAC-T2A21P/2TB

8CH Smart 1HDD H.265+ 1080P AI Digital Video Security System



- H.265+/H.264+/H.265/H.264, high compression rate, ultra-low bit rate.
- 8 × 2 MP IR fixed HDCVI analog eyeball camera.
- 1 × Digital Video Recorder, Encoding capability up to 5M-N/1080p resolution.
- Encoding Capacity: All channel 5M-N@(1 fps–10 fps); 4M-N, 1080p@(1 fps–15 fps).
- VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K.
- Up to 8 channels video stream (analog channel) SMD Plus.
- 2-MP, 1/2.8" CMOS image sensor, low illuminance, high image definition.
- Outputs max. 1080p@25 fps.
- Built-in IR LED, max. IR distance: 20 m.
- IP67 protection.

### Series Overview

EZIP CVI KIT is a product package including cameras and recorders. They are easy to be installed and connected, which can help customer save more time and human labor. This solution can be widely used in retails, homes and other small and medium-sized enterprises.

### Functions

#### SMD Plus

With intelligent algorithm, 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 Illuminators

With intelligent algorithm, 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.

#### 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.



SMD Plus



One-click Arming/Disarming



Smart Dual Illuminators

**Technical Specification**
**System**

|                     |                            |
|---------------------|----------------------------|
| Main Processor      | Industrial-grade processor |
| Operating System    | Embedded Linux             |
| Operating Interface | Web; Local GUI             |

**SMD Plus**

|                      |  |
|----------------------|--|
| SMD Plus by Recorder | 8 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       | 8 BNC ports, CVI access by default, supports HDCVI/AHD/TVI/CVBS auto-detect  |
| Camera Input              | 1. CVI: 5 MP, 4 MP, 1080p@25/30 fps, 720p@50/60 fps, 720p@25/30 fps.<br>2. TVI: 5 MP, 4 MP, 1080p@25/30 fps, 720p@25/30 fps.<br>3. AHD: 5 MP, 4 MP, 1080p@25/30 fps, 720p@25/30 fps.<br>4. CVBS: PAL/NTSC  |
| IP Camera Input           | Up to 12 channels of IPC access<br>4 IP channels by default + 8 channels (analog channels are converted to IP channels)<br>incoming bandwidth: 64 Mbps, recording bandwidth: 64 Mbps and outgoing bandwidth: 64 Mbps<br>*After IP channels are added beyond the existing channels, the AI Function (SMD) will be disabled. |
| Encoding Capacity         | Main Stream:<br>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)<br>Sub stream:<br>D1, CIF@ (1 fps-15 fps)   |
| 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<br>HDMI/VGA: 1920 × 1080, 1280 × 1024, 1280 × 720  |
| Multi-screen Display      | When IP extension mode not enabled: 1/4/8/9<br>When IP extension mode enabled: 1/4/8/9/16  |
| Third-party Camera Access | ONVIF; Panasonic; Sony; Axis; Arecont; Pelco; Canon; Samsung   |

**Compression Standard**

|                   |   |
|-------------------|---|
| Video Compression | AI Coding; H.265+; H.265; H.264+; H.264 |
| Audio Compression | G.711a; G.711u; PCM                     |

**Network**

|                     |   |
|---------------------|---|
| Network Protocol    | HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; P2P |
| Mobile Phone Access | iOS, Android  |
| Interoperability    | ONVIF 21.12; CGI Conformant   |
| Browser             | Chrome<br>IE9 or later<br>Firefox                                     |
| Network Mode        | Single-address mode   |

**Recording Playback**

|                    |  |
|--------------------|--|
| Record Mode        | General, motion detection, alarm, POS                            |
| Recording Playback | 1/4/8/9  |
| Backup Method      | USB device and network   |
| Playback Mode      | Instant playback, general playback, event playback, tag playback |

**Alarm**

|               |   |
|---------------|---|
| General Alarm | Motion detection, video loss, tampering   |
| Anomaly Alarm | No disk, disk error, low space, offline, ip conflict, MAC conflict  |
| Alarm Linkage | Record; snapshot (panoramic); local alarm output; IPC external alarm output; access controller; audio; buzzer; log, preset; email |

**Ports**

|               |   |
|---------------|---|
| 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)                                 |
| HDD Interface | 1 SATA port, up to 16 TB. The maximum HDD capacity varies with environment temperature. |
| USB           | 2 USB ports (USB 2.0)   |
| HDMI          | 1   |
| VGA           | 1   |
| Network Port  | 1 (10/100 Mbps Ethernet port, RJ-45)  |

**General**

|                       |   |
|-----------------------|---|
| Power Supply          | 12VDC, 1.5A   |
| Power Consumption     | <7 W  |
| Net Weight            | 0.57 kg (1.26 lb)   |
| Gross Weight          | 1.05 kg (2.31 lb)   |
| Product Dimensions    | 198.3 mm × 203.4 mm × 41.5 mm<br>(7.81" × 8.01" × 1.63") (W × D × H)  |
| Packaging Dimensions  | 332.0 mm × 240.0 mm × 64.0 mm (13.07" × 9.45" × 2.52") (W × D × H)  |
| Operating Temperature | -10 °C to +55 °C (+14 °F to +131 °F)  |
| Operating Humidity    | 0%-90% (RH)   |
| Installation          | Desktop   |
| Certifications        | FCC: Part 15 Subpart B<br>CE: CE-LVD: EN 60950-1/IEC 60950-1<br>CE-EMC: EN 61000-3-2; EN 61000-3-3; EN 55032; EN50130; EN 55024 |

### Technical Specification

#### Camera

|                            |   |
|----------------------------|---|
| Pixel                      | 2 MP  |
| Image Sensor               | 2MP CMOS  |
| Max. Resolution            | 1920 (H) × 1080 (V)   |
| Scanning System            | Progressive   |
| Electronic Shutter Speed   | PAL: 1/25 s–1/100,000 s<br>NTSC: 1/30 s–1/100,000 s                                     |
| Min. Illumination          | 0.04 lux@F2.0 (Color, 30 IRE)<br>0.004 lux@F2.0 (B/W, 30 IRE)<br>0 lux (Illuminator on) |
| S/N Ratio                  | >65 dB  |
| Illumination Distance      | 20 m (65.62 ft)   |
| Illuminator On/Off Control | Auto/Manual   |
| Illuminator Number         | 2 (IR light)  |
| Pan/Tilt/Rotation Range    | Pan: 0°–360°<br>Tilt: 0°–78°<br>Rotation: 0°–360°                                       |

#### Lens

|                      |  |                    |                    |                   |                  |
|----------------------|--|--------------------|--------------------|-------------------|------------------|
| Lens Type            | Fixed-focal  |                    |                    |                   |                  |
| Lens Mount           | M12  |                    |                    |                   |                  |
| Focal Length         | 2.8 mm; 3.6 mm; 6 mm   |                    |                    |                   |                  |
| Max. Aperture        | F2.0   |                    |                    |                   |                  |
| Field of View        | 2.8 mm: H: 100°; V: 53°; D: 120°<br>3.6 mm: H: 82°; V: 42°; D: 98°<br>6 mm: H: 53°; V: 30°; D: 60° |                    |                    |                   |                  |
| Iris Control         | Fixed  |                    |                    |                   |                  |
| Close Focus Distance | 2.8 mm: 0.6 m (1.97 ft)<br>3.6 mm: 1.0 m (3.28 ft)<br>6 mm: 2.0 m (6.56 ft)                        |                    |                    |                   |                  |
| DORI Distance        | Lens   | Detect             | Observe            | Recognize         | Identify         |
|                      | 2.8 mm   | 46.9 m (153.87 ft) | 18.8 m (61.68 ft)  | 9.4 m (30.84 ft)  | 4.7 m (15.42 ft) |
|                      | 3.6 mm   | 60.9 m (199.80 ft) | 24.3 m (79.72 ft)  | 12.2 m (40.03 ft) | 6.1 m (20.01 ft) |
|                      | 6 mm   | 82.8 m (271.65 ft) | 33.1 m (108.60 ft) | 16.6 m (54.46 ft) | 8.3 m (27.23 ft) |

#### Video

|                  |   |
|------------------|---|
| Video Frame Rate | CVI:<br>PAL: 1080p@25 fps; 720p@25 fps<br>NTSC: 1080p@30 fps; 720p@30 fps<br>TVI:<br>PAL: 1080p@25 fps; 720p@25 fps<br>NTSC: 1080p@30 fps; 720p@30 fps<br>AHD:<br>PAL: 1080p@25 fps; 720p@25 fps<br>NTSC: 1080p@30 fps; 720p@30 fps<br>CVBS:<br>PAL: 960H<br>NTSC: 960H |
| Resolution       | 1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)  |
| Day/Night        | Auto (ICR)/Color/B/W  |
| BLC              | BLC; HLC; DWDR  |

|                    |                             |
|--------------------|-----------------------------|
| WDR                | DWDR                        |
| White Balance      | Auto; Area white balance    |
| Gain Control       | Auto/Manual                 |
| Noise Reduction    | 2D NR                       |
| Smart Illumination | Yes                         |
| Mirror             | Yes                         |
| Privacy Masking    | Off/On (8 areas, rectangle) |

#### Certification

|                |   |
|----------------|---|
| Certifications | CE (EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) |
|----------------|---|

#### Port

|              |  |
|--------------|--|
| Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BNC port |
|--------------|--|

#### Power

|                   |                            |
|-------------------|----------------------------|
| Power Supply      | 12 VDC ± 30%               |
| Power Consumption | Max. 2.7 W (12 VDC, IR on) |

#### Environment

|                       |                                      |
|-----------------------|--------------------------------------|
| Operating Temperature | –40 °C to +60 °C (–40 °F to 140 °F)  |
| Operating Humidity    | <95% (RH), non-condensing            |
| Storage Temperature   | –40 °C to +60 °C (–40 °F to +140 °F) |
| Protection            | IP67                                 |

#### Structure

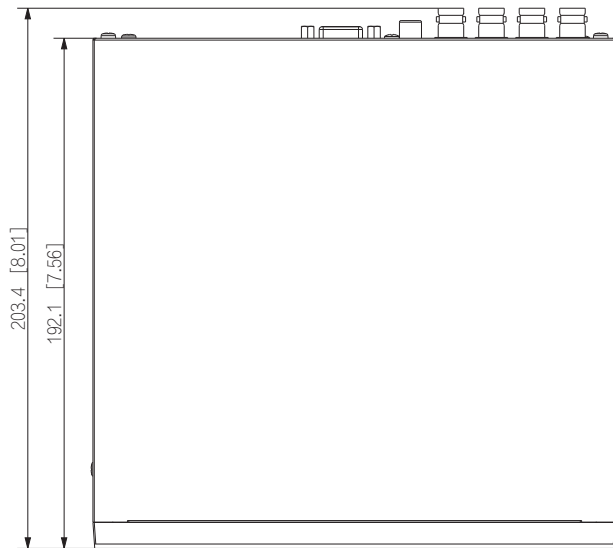
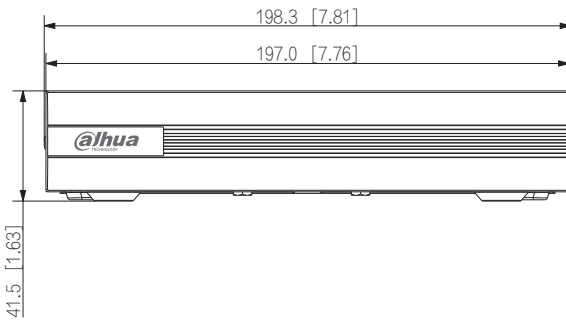
|                      |  |
|----------------------|--|
| Casing               | Metal  |
| Product Dimensions   | Φ94 mm × 78 mm (Φ3.70" × 3.07")                  |
| Packaging Dimensions | 109 mm × 109 mm × 85 mm (4.29" × 4.29" × 4.17")  |
| Net Weight           | 0.27 kg (0.60 lb)                                |
| Gross Weight         | 0.32 kg (0.71 lb)                                |
| Installation         | Wall mount; ceiling mount; horizontal pole mount |

**Ordering Information**

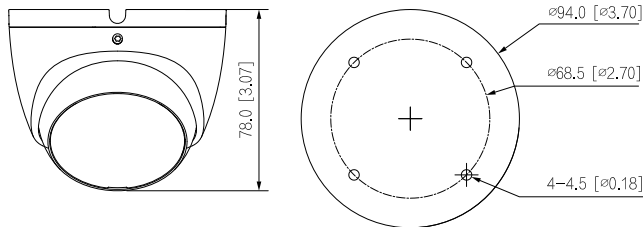
| Type      | Model                                | Description  |
|-----------|--------------------------------------|--|
| HDCVI KIT | EZIP-KIT/XVR1B08H-I/8-HAC-T2A21P/2TB | 8CH Smart 1HDD H.265+ 1080P AI Digital Video Security System |

**Dimensions (mm/inch)**

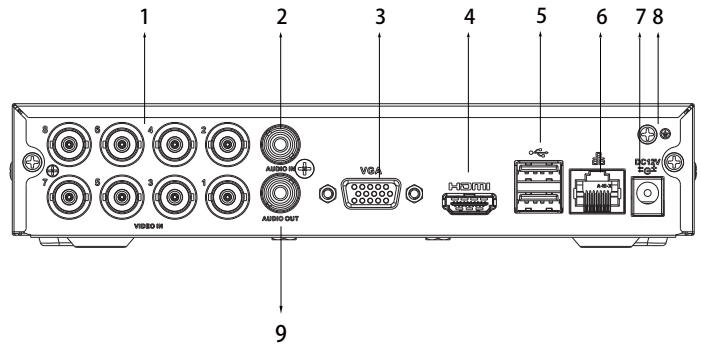
DH-XVR1B08H-I



DH-HAC-T2A21



**Panels**



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

**What's In the Box?**

