4K HDCVI Security System
Four (4) 5 MP and Two (2) 4K HDCVI Eyeball Cameras with One (1) 8-channel 4K HDCVI DVR

5 MP HDCVI Cameras
- 5 MP¹ at 20 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Maximum IR Length: 30 m (98 ft) with Smart IR
- IP67 Ingress Protection

4K HDCVI Cameras
- 8 MP at 15 fps Maximum Resolution
- 2.8 mm Fixed Lens
- Maximum IR Length: 50 m (164 ft) with Smart IR
- IP67 Ingress Protection

4K HDCVI DVR
- 8 Channel Penta-brid Recorder, Support for 8 + 8 IP Channels
- Smart H.265+ and Smart H.264+ Dual Codec
- 4K at 7 fps Recording Resolution on all HDCVI Channels
- Automatically Detects HDCVI, AHD, TVI, and CVBS Inputs

Intelligent Video System (IVS)
The HDCVI DVR offers IVS, a built-in video analytic algorithm that delivers standard intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. IVS quickly and accurately responds to monitoring events in a specific area. In addition, the HDCVI DVR feature face detection technology that identifies human faces in digital images.

Smart H.265+
The HDCVI DVR uses Smart H.265+ video compression to reduce bit rate and storage requirements by up to 70% when compared to standard H.265 video compression. Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network.

Multi-format Support
The camera and HDCVI DVR supports multiple video formats including, HDCVI, CVBS, AHD, and TVI. The camera can switch between these four formats via the OSD menu or the switch located on the video output cable making the camera compatible with not only HDCVI DVRs but also most existing HD/SD DVRs. The HDCVI DVR automatically recognizes the incoming signals of each attached camera without any setup, making installation easy and operation convenient.

Environmental
With a built-in heater and a temperature range of –40° C to +60° C (–40° F to +140° F), the cameras are designed for extreme temperature environments. The cameras, subjected to rigorous dust and water immersion tests, are certified to the IP67 rating making them suitable for demanding outdoor applications.

The HDCVI DVR features an operating temperature of –10° C to +55° C (+14° F to +131° F).
Technical Specification

A511K02 HDCVI Camera

Camera

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Image Sensor</td>
<td>1/2.7-in. CMOS</td>
</tr>
<tr>
<td>Effective Pixels</td>
<td>2592 (H) x 1944 (V), 5 MP</td>
</tr>
<tr>
<td>Scanning System</td>
<td>Progressive</td>
</tr>
<tr>
<td>Electronic Shutter Speed</td>
<td>1/30 s to 1/100000 s</td>
</tr>
<tr>
<td>Minimum Illumination</td>
<td>Color: 0.02 Lux at F1.85 (30 IRE) 0 Lux with IR on</td>
</tr>
<tr>
<td>S/N Ratio</td>
<td>More than 65 dB</td>
</tr>
<tr>
<td>IR Distance</td>
<td>Up to 30 m (98.04 ft)</td>
</tr>
<tr>
<td>IR On/Off Control</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>IR LEDs</td>
<td>12</td>
</tr>
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Lens

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lens Type</td>
<td>Fixed Lens / Fixed Iris</td>
</tr>
<tr>
<td>Mount Type</td>
<td>Board-in</td>
</tr>
<tr>
<td>Focal Length</td>
<td>2.8 mm</td>
</tr>
<tr>
<td>Max Aperture</td>
<td>F1.85</td>
</tr>
<tr>
<td>Horizontal Angle of View</td>
<td>103°</td>
</tr>
<tr>
<td>Close Focus Distance</td>
<td>900 mm (35.43 in.)</td>
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DORI² Distance

<table>
<thead>
<tr>
<th>Distance</th>
<th>Detect (8 ppf)</th>
<th>Observe (19 ppf)</th>
<th>Recognize (38 ppf)</th>
<th>Identify (76 ppf)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>63 m (207 ft)</td>
<td>25 m (82 ft)</td>
<td>13 m (43 ft)</td>
<td>6 m (20 ft)</td>
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Installation Angle

<table>
<thead>
<tr>
<th>Range</th>
<th>Pan: 0° to 360°</th>
<th>Tilt: 0° to 90°</th>
<th>Rotation: 0° to 360°</th>
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</table>

Video

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution¹</td>
<td>5 MP (2592 x 1944)</td>
</tr>
<tr>
<td>Frame Rate</td>
<td>5 MP at 20 fps, 4 MP at 30 fps, 1080p at 30 fps</td>
</tr>
<tr>
<td>Video Output</td>
<td>One (1) BNC HDCVI High-definition Channel or One (1) BNC CVBS, AHD or TVI Channel, switchable</td>
</tr>
<tr>
<td>Video Transmission³</td>
<td>RG-59/U Coax</td>
</tr>
<tr>
<td></td>
<td>RG-6/U Coax</td>
</tr>
<tr>
<td></td>
<td>CAT 6 UTP (balun required)</td>
</tr>
<tr>
<td>Day/Night</td>
<td>Auto (ICR), Manual</td>
</tr>
<tr>
<td>OSD Menu</td>
<td>Multi-language</td>
</tr>
<tr>
<td>BLC Mode</td>
<td>BLC, HLC, DWDR</td>
</tr>
<tr>
<td>WDR</td>
<td>Digital WDR</td>
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<tr>
<td>Gain Control</td>
<td>AGC</td>
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<tr>
<td>Noise Reduction</td>
<td>2D</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto, Manual</td>
</tr>
<tr>
<td>Smart IR</td>
<td>Auto, Manual</td>
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Certifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Safety</td>
<td>EN55032, EN55024, EN50130-4 UL60950-1+CAN/CSA C22.2 No.60950-1</td>
</tr>
<tr>
<td>Electromagnetic Compatibility (EMC)</td>
<td>FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014</td>
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Electrical

<table>
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<tr>
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<tbody>
<tr>
<td>Power Supply</td>
<td>12 VDC ±30%</td>
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<tr>
<td>Power Consumption</td>
<td>Maximum 3.6 W (12 VDC with IR on)</td>
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Environmental

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</thead>
<tbody>
<tr>
<td>Operating Conditions</td>
<td>−40° C to +60° C (−40° F to +140° F), Less than 95% RH Initiate startup above −40° C (−40° F)</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>−40° C to +60° C (−40° F to +140° F), Less than 95% RH</td>
</tr>
<tr>
<td>Ingress Protection</td>
<td>IP67</td>
</tr>
</tbody>
</table>

Construction

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casing</td>
<td>Aluminium</td>
</tr>
<tr>
<td>Dimensions</td>
<td>ø93.40 mm x 79.40 mm (ø3.68 in. x 3.13 in.)</td>
</tr>
<tr>
<td>Net Weight</td>
<td>0.28 kg (0.62 lb)</td>
</tr>
<tr>
<td>Gross Weight</td>
<td>0.38 kg (0.84 lb)</td>
</tr>
</tbody>
</table>

¹ Default camera resolution is set to 4 MP. The camera is capable of transmitting 5 MP video. Use the OSD menu to change the camera’s resolution to 5 MP.

² DORI² Distance

³ Video Transmission
### Technical Specification

#### A82AG52 4K HDCVI Camera

**Camera**
- **Image Sensor**: 1/2-in. CMOS
- **Effective Pixels**: 3840 (H) x 2160 (V), 8 MP
- **Scanning System**: Progressive
- **Electronic Shutter Speed**: 1/30 s to 1/100000 s
- **Minimum Illumination**: Color: 0.005 Lux at F1.6 (30 IRE) 0 Lux with IR on
- **S/N Ratio**: More than 65 dB
- **IR Distance**: Up to 50 m (164.04 ft)
- **IR On/Off Control**: Auto, Manual
- **IR LEDs**: Two (2)
- **Lens**
  - **Type**: Fixed Lens / Fixed Iris
  - **Mount Type**: Board-in
  - **Focal Length**: 2.8 mm
  - **Max Aperture**: F1.6
  - **Horizontal Angle of View**: 87°
  - **Focus Control**: Auto, Manual
  - **Close Focus Distance**: 1800 mm (70.87 in.)
- **DORI² Distance**
  - **Detect (8 ppf)**
  - **Observe (19 ppf)**
  - **Recognize (38 ppf)**
  - **Identify (76 ppf)**
  - 84 m (276 ft) 34 m (112 ft) 17 m (56 ft) 8 m (27 ft)
- **Installation Angle**
  - **Range**
    - Pan: 0° to 360°
    - Tilt: 0° to 70°
    - Rotation: 0° to 360°
- **Video**
  - **Resolution**: 8 MP (3840 x 2160)
  - **Frame Rate**
    - **HDCVI**: 8 MP at 15 fps, 6 MP at 20 fps, or 4 MP at 30 fps
    - **TVI**: 5 MP at 20 fps 4 MP at 30 fps
    - **AHD**: 5 MP at 20 fps 4 MP at 30 fps
    - **CVBS**: 960H
  - **Video Output**: One (1) BNC HDCVI 4K Ultra High-definition Channel or One (1) BNC CVBS, AHD or TVI Channel, switchable

#### Video Transmission³

<table>
<thead>
<tr>
<th></th>
<th>RG-59/U Coax</th>
<th>RG-6/U Coax</th>
<th>CAT 6 UTP (balun required)</th>
</tr>
</thead>
<tbody>
<tr>
<td>720p</td>
<td>800 m (2624.67 ft)</td>
<td>1200 m (3937.01 ft)</td>
<td>450 m (1476.38 ft)</td>
</tr>
<tr>
<td>1080p</td>
<td>500 m (1640.42 ft)</td>
<td>800 m (2624.67 ft)</td>
<td>300 m (984.25 ft)</td>
</tr>
<tr>
<td>4K</td>
<td>500 m (1640.42 ft)</td>
<td>700 m (2296.59 ft)</td>
<td>300 m (984.25 ft)</td>
</tr>
</tbody>
</table>

#### Day/Night
- **Auto (ICR)**, Manual

#### OSD Menu
- **Multi-language**

#### BLC Mode
- **BLC, HLC, WDR**
- **True WDR (120 dB)**

#### Gain Control
- **AGC**

#### Noise Reduction
- **2D, 3D**

#### White Balance
- **Auto, Manual**

#### Smart IR
- **Auto, Manual**

#### Certifications
- **Safety**
  - EN55032, EN55024, EN50130-4
  - UL60950-1+CAN/CSA C22.2 No.60950-1
- **Electromagnetic Compatibility (EMC)**
  - FCC CFR 47 FCC Part 15 Subpart B
  - ANSI C63.4-2014

#### Interface
- **Audio**
  - Input: One (1) Channel, RCA Jack, and One(1) Built-in Microphone

#### Electrical
- **Power Supply**: 12 VDC ±30%
- **Power Consumption**: Maximum 8 W (12 VDC with IR on)

#### Environmental
- **Operating Conditions**: −30°C to +60°C (-22° F to +140° F), Less than 90% RH
- **Storage Conditions**: −30°C to +60°C (-22° F to +140° F), Less than 90% RH
- **Ingress Protection**: IP67

#### Construction
- **Casing**: Aluminium
- **Dimensions**: ø106.0 mm x 99.20 mm (ø4.17 in. x 3.90 in.)
- **Net Weight**: 0.50 kg (1.10 lb)
- **Gross Weight**: 0.62 kg (1.37 lb)

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2. The DORI distance is a measure of the general proximity for a specific classification to help pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specifications and lab test results according to EN 62676-4, the standard that defines the criteria for the Detect, Observe, Recognize and Identify classifications.

3. Transmission distance results verified by real-scene testing in Dahua's test laboratory. Actual transmission distances may vary due to external influences, cable quality, and wiring structures.
# Technical Specification

## X72A2A3 4K HDCVI DVR

### System
- **Main Processor**: Embedded Processor
- **Operating System**: Embedded LINUX

### Interface
- **Analog Camera Input**: 8 Channels, BNC
- **HDCVI**: 8 MP, 6 MP, 4 MP, 1080p at 30 fps, 720p at 60 fps, 720p at 30 fps
- **AHD**: 5 MP, 4 MP, 3 MP, 1080p at 30 fps, 720p at 30 fps
- **TVI**: 5 MP, 4 MP, 3 MP, 1080p at 30 fps, 720p at 30 fps
- **CVBS**: NTSC
- **IP Camera Input**: 8+8 Channels, each channel up to 8 MP
- **Audio**
  - **Input**: Four (4) Channels, RCA
  - **Output**: One (1) Channel, RCA
- **Two-way Talk**: Reuse Audio In/Out, RCA

### Recording
- **Compression**: Smart H.265+, H.265, Smart H.264+, H.264
- **Recording Resolution**: 8 MP, 6 MP, 5 MP, 4 MP, 4 M-N (1280 x 1440), 1080p, 720p, 960H, D1, CIF
- **Record Rate**
  - **Main Stream**: 8 MP at 7 fps; 6 MP at 10 fps, 5 MP at 12 fps, 4 MP or 3 MP at 15 fps; 4 M-N, 1080p, 960H, D1, CIF or QCI if at 30 fps
  - **Sub Stream**: 960H at 15 fps; D1 or CIF at 30 fps
- **Maximum Incoming Bandwidth**: 64 Mbps
- **Bit Rate**: 32 Kbps to 6144 Kbps per Channel
- **Record Mode**: Manual, Schedule (Regular, Continuous), MD (Video Detection: Motion Detection, Video Loss, Tampering), Alarm, Stop
- **Record Interval**: 1 to 60 minutes (default: 60 minutes), Pre-record: 1 to 30 s, Post-record: 10 to 300 s
- **Audio Compression**: AAC (first channel only), G.711A, G.711U, PCM
- **Audio Sample Rate**: 8 KHz, 16 bits per Channel
- **Audio Bit Rate**: 64 Kbps per Channel

### Display
- **Interface**: One (1) HDMI (3840 x 2160), One (1) VGA (1920 x 1080)
- **Spot Output**: HDMI or VGA, configurable
- **Native Output Resolution**
  - **HDMI**: 3840 x 2160, 2560 x 1440, 1920 x 1080, 1280 x 1024, 1280 x 720, 1024 x 768
  - **VGA**: 1920 x 1080, 1280 x 1024, 1280 x 720
- **Maximum Decoding**
  - **4K Channels of 4K at 7 fps**
  - **4 MP Channels at 10 fps**
  - **4 MP Channels at 15 fps**
  - **8 Channels of 4 MP/3 MP at 15 fps**
  - **8 Channels of 4 MP/3 MP at 15 fps**
- **Multi-screen Display**: IP extension mode disabled: 1/4/9, 1/8/9/16
- **On-screen Display**: Camera Title, Time, Video Loss, Camera Lock, Motion Detection, Recording

### Network
- **Interface**: One (1) RJ45 (1000 Mbps) Port
- **Network Function**: HTTP, TCP/IP, IPv4/IPv6, UPnP, RTSP, UDP, SMTP, NTP, DHCP, DNS, IP Filter, PPPoE, DDNS, FTP, Alarm Server, P2P, IP Search (Supports Dahua IP cameras, DVRs, NVRs)
- **Max. User Access**: 128 Users
- **Mobile Operating System**: iOS, Android
- **Interoperability**: ONVIF 16.12, CGI Conformant

### Video Detection and Alarm
- **Trigger Events**: Recording, PTZ, Tour, Video Push, Email, FTP, Snapshot, Buzzer and Screen Tips
- **Video Detection**: Motion Detection, MD Zones: 396 (22 x 18), Video Loss, Tampering and Diagnosis
- **Alarm Input**: 16 Channels
- **Relay Output**: Three (3) Channels

### Playback and Backup
- **Playback**: 1/4/9
- **Search Mode**: Time/Date, Alarm, MD and Exact Search (accurate to 1 second)
- **Playback Function**: Play, Pause, Stop, Rewind, Fast Play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Repeat, Shuffle, Backup Selection, and Digital Zoom
- **Backup Mode**: USB Device/Network

### Storage
- **Internal HDD**: Two (2) SATA Ports, up to 10 TB capacity for each disk
- **Unit ships with a pre-installed 3 TB HDD**

### Auxiliary Interface
- **USB**: One (1) USB 2.0 Port and One (1) USB 3.0 Port
- **RS485**: One (1) Port for PTZ Control

### Electrical
- **Power Supply**: 12 VDC, 4 A
- **Power Consumption**: < 10 W, without HDD

### Construction
- **Dimensions**
  - **HDCVI DVR**: 1U, 375.0 mm x 287.15 mm x 53.0 mm (14.80 in. x 11.31 in. x 2.09 in.)
  - **with PFH101 Rack Mount Tray**: 482.6 mm x 287.15 mm x 53.0 mm (19.0 in. x 11.31 in. x 2.09 in.)
- **Net Weight**: 1.70 kg (3.70 lb)
- **Gross Weight**: 3.0 kg (6.60 lb)
- **Installation**: Desktop or Rack-mount

### Environmental
- **Operating Conditions**: –10° C to +55° C (+14° F to +131° F), 10% to 90% RH
- **Storage Conditions**: –20° C to +70° C (+4° F to +158° F), 0% to 90% RH
Kit | C788E63

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 others |

Certifications

| Safety | UL 60950-1  
EN 60950-1  
IEC 60950-1 |
| Electromagnetic Compatibility (EMC) | FCC Part 15 Subpart B  
EN 61000-3-2  
EN 61000-3-3  
EN 55032  
EN 55024 |

Intelligence

The IVS features are operational only when the additional IP channel feature is not active. The HDCVI DVR supports only IVS or the additional IP channel inputs, both features cannot be in use simultaneously. IVS triggers an alarm and takes a defined action for the following events:

Premium Features

- **Tripwire**: A target crosses a user-defined line.
- **Intrusion**: A target enters or exits a defined perimeter.
- **Abandoned/Missing Object**: A target leaves an object in designated area, or a target removes an object from the same designated area.

Advanced Features

- **Facial Detection**: Detects and captures a snapshot of human face in a defined area within a scene.

IVS Feature Availability

The HDCVI DVR supports the following IVS availability:
- Tripwire and Intrusion available on all 8 channels.
- Abandoned and Missing Object available on channel 1 through 4.
- Facial Detection available on one channel.

Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
</table>
| 4K HDCVI Security System | C788E63 | • 4 x 5 MP HDCVI IR Eyeball Cameras  
• 2 x 4K HDCVI IR Eyeball Cameras  
• 1 x 8-channel 4K HDCVI DVR, 3 TB |
| 5 MP Camera Accessories, optional | PFA13A-E | Junction Box (For use alone) |
| | PFA152-E | Pole Mount (For use with PFB204W wall mount) |
| | PFB204W | Wall Mount (For use alone or with PFA152-E pole mount) |
| | DH-PFM320D-015 | 12 VDC 2 A Power Adapter |
| | DH-PFM321D-US | 12 V, 1 A Power Adapter |
| | DH-PFM800-4K | 4K Passive HDCVI Balun |
| 4K Camera Accessories, optional | PFA130-E | Junction Box (For use alone or with PFA152-E pole mount) |
| | PFA152-E | Pole Mount (For use with PFA130-E junction box) |
| | PFB204W | Wall Mount |
| | DH-PFM320D-015 | 12 VDC 2 A Power Adapter |
| | DH-PFM321D-US | 12 VDC, 1 A Power Adapter |
| | DH-PFM800-4K | 4K Passive HDCVI Balun |
| HDCVI DVR Accessory, optional | HAP100 | Pinhole Pickup |
| | HAP200 | High-fidelity Pickup |
| | PFH101 | Rack Mount Tray |

Third-party Support

Dahua, Arecont Vision, AXIS, Bosch, Brickcom, Canon, CP Plus, Dynacolor, Honeywell, Panasonic, Pelco, Samsung, Sanyo, Sony, Videotec, Vivotek, and others

Certifications

| Safety | UL 60950-1  
EN 60950-1  
IEC 60950-1 |
| Electromagnetic Compatibility (EMC) | FCC Part 15 Subpart B  
EN 61000-3-2  
EN 61000-3-3  
EN 55032  
EN 55024 |

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• 2 x 4K HDCVI IR Eyeball Cameras  
• 1 x 8-channel 4K HDCVI DVR, 3 TB |
| 5 MP Camera Accessories, optional | PFA13A-E | Junction Box (For use alone) |
| | PFA152-E | Pole Mount (For use with PFB204W wall mount) |
| | PFB204W | Wall Mount (For use alone or with PFA152-E pole mount) |
| | DH-PFM320D-015 | 12 VDC 2 A Power Adapter |
| | DH-PFM321D-US | 12 V, 1 A Power Adapter |
| | DH-PFM800-4K | 4K Passive HDCVI Balun |
| 4K Camera Accessories, optional | PFA130-E | Junction Box (For use alone or with PFA152-E pole mount) |
| | PFA152-E | Pole Mount (For use with PFA130-E junction box) |
| | PFB204W | Wall Mount |
| | DH-PFM320D-015 | 12 VDC 2 A Power Adapter |
| | DH-PFM321D-US | 12 VDC, 1 A Power Adapter |
| | DH-PFM800-4K | 4K Passive HDCVI Balun |
| HDCVI DVR Accessory, optional | HAP100 | Pinhole Pickup |
| | HAP200 | High-fidelity Pickup |
| | PFH101 | Rack Mount Tray |
### Camera Accessories

**Optional:**

- **PFA13A-E**
  - Junction Box

- **PFA130-E**
  - Junction Box

- **PFB204W**
  - Wall Mount

- **PFA152-E**
  - Pole Mount

- **DH-PFM320D-US**
  - 12 VDC, 2 A
  - Power Adapter

- **DH-PFM321D-US**
  - 12 VDC, 1 A
  - Power Adapter

- **DH-PFM800-4K**
  - 4K HDCVI Balun

- **HAP100**
  - Pinhole Pickup

- **HAP200**
  - High-fidelity Pickup

### 5 MP HDCVI Camera Installation

<table>
<thead>
<tr>
<th>Junction Mount</th>
<th>Pole Mount</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFA13A-E</td>
<td>PFB204W + PFA152-E</td>
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</table>

### 4K HDCVI Camera Installation

<table>
<thead>
<tr>
<th>Junction Mount</th>
<th>Pole Mount</th>
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</thead>
<tbody>
<tr>
<td>PFA130-E</td>
<td>PFB204W + PFA152-E</td>
</tr>
</tbody>
</table>

### Wall Mount

- **PFB204W**
Dimensions (mm/in.) - 5 MP HDCVI Camera

Dimensions (mm/in.) - 4K HDCVI Camera

Dimensions (mm/in.) - 4K HDCVI DVR

4K HDCVI DVR Rear Panel

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Video IN, BNC x 8</td>
<td>7</td>
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<tr>
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<td>6</td>
<td>Audio OUT, RCA</td>
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