4 MP HDCVI Dome Camera
4 MP WDR HDCVI IR Vari-focal Dome Camera

System Overview
Experience the superior clarity of real-time 4 MP video while leveraging your existing coaxial infrastructure. The camera features 120 dB True WDR for applications under complex dynamic range and presents high quality images with clear details and accurate color rendition. The camera offers a multi-language on-screen display and HD and SD dual-output. The outstanding performance and easy installation make the camera an ideal choice for mid- to large-size businesses and for projects where highly reliable surveillance and construction flexibility are valued.

Functions
Three Signals over One Coaxial Cable
HDCVI technology simultaneously transmits video, power, and data over a single coaxial cable. Dual-way data transmission allows the HDCVI camera to communicate with an HCVR to send control signals or to trigger alarms. HDCVI along with PoC technology delivers power¹ to devices at the edge, simplifying installation.

Long Distance Transmission
HDCVI technology guarantees real-time transmission over long distances without loss of video quality. HDCVI cameras provide the same resolution as most IP network camera systems using existing RG-59, RG-6, or CAT 6 UTP cabling.

Simplicity
HDCVI technology seamlessly integrates traditional analog surveillance systems with upgraded, high-quality HD video, making it the best choice to protect security investments. The plug and play approach enables full HD video surveillance without the hassles of configuring a network.

Multi-outputs
The camera supports HDCVI and CVBS signal outputs simultaneously with two BNC connectors. These output signals allow the camera to integrate with various devices, including analog matrix systems and monitors.

¹. Requires PoC Transceivers for each channel and an external power supply for each transceiver.

Smart IR
With IR illumination, detailed images can be captured in low light or total darkness. The camera’s Smart IR technology adjusts the intensity of camera’s infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera’s integrated infrared illumination provides high performance in extreme low-light environments up to 30 m (98 ft).

Wide Dynamic Range
For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Advanced 3DNR
3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua’s advanced 3DNR technology delivers remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. 3DNR, in addition, effectively decreases the bandwidth and saves storage space.

Large Aperture Lens
The camera uses a high-end F1.3 large-aperture lens, allowing more absorbed light into the camera for impressive low-light performance.

Protection
The camera’s outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67, making it suitable for indoor or outdoor environments.

With a working temperature range of -30 °C to +60 °C (-22 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±25% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.
### Technical Specification

**Camera**
- **Image Sensor**: 1/3-in. CMOS
- **Effective Pixels**: 2688(H) x 1520(V), 4.1 MP
- **Scanning System**: Progressive
- **Electronic Shutter Speed**: 1/3 s to 1/100,000 s
- **Minimum Illumination**: 0.01 Lux at F1.3 0 Lux with IR on
- **S/N Ratio**: More than 65 dB
- **IR Distance**: Up to 30 m (98 ft)
- **IR On/Off Control**: Auto, Manual
- **IR LEDs**: Two (2)

**Lens**
- **Lens Type**: Motorized Lens / Fixed Iris
- **Mount Type**: Board-in
- **Focal Length**: 2.7 mm to 1.3.5 mm
- **Max Aperture**: F1.3
- **Angle of View**: Horizontal: 26° to 98°
- **Focus Control**: Auto, Manual
- **Close Focus Distance**: 200 mm (7.87 in.)

**Pan / Tilt / Rotation**
- **Range**: Pan: 0° to 355°  Tilt: 0° to 75°  Rotation: 0° to 355°

**Video**
- **Resolution**: 4 MP (2560 x 1440)
- **Frame Rate**: 4 MP at 25 fps  1080p at 30 fps  720p at 30 fps
- **Video Output**: One (1) BNC HDCVI High-definition Channel and, One (1) BNC CVBS Channel

**Video Transmission²**
- **RG-59/U Coax**: 720p: 800 m (2624.67 ft)  1080p: 500 m (1640.42 ft)  4 MP: 500 m (1640.42 ft)
- **RG-6/U Coax**: 720p: 1200 m (3937.01 ft)  1080p: 800 m (2624.67 ft)  4 MP: 700 m (2296.59 ft)
- **CAT 6 UTP (balun required)**: 720p: 450 m (1476.38 ft)  1080p: 300 m (984.25 ft)  4 MP: 300 m (984.25 ft)

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

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

**BLC Mode**
- **BLC, HLC, WDR**

**WDR**
- **120 dB**

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

**Noise Reduction**
- **2D/3D**

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

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

---

2. 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.

### Certifications

<table>
<thead>
<tr>
<th>Safety</th>
<th>UL60950-1+CAN/CSA C22.2 No.60950-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electromagnetic Compatibility (EMC)</td>
<td>FCC CFR 47 FCC Part 15 Subpart B ANSI C63.4-2014</td>
</tr>
<tr>
<td>Electrical</td>
<td></td>
</tr>
<tr>
<td>Power Supply</td>
<td>24 VAC ±25%, 12 VDC ±25%</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Maximum 10.1 W (12 VDC with IR on)</td>
</tr>
</tbody>
</table>

### 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 |
| Vandal Resistance | IK10 |

### Construction

| Casing | Aluminium |
| Color | White |
| Dimensions | ø122.0 mm x 88.90 mm (ø4.80 in. x 3.50 in.) |
| Net Weight | 0.48 kg (1.06 lb) |
| Gross Weight | 0.63 kg (1.39 lb) |

---

www.dahuasecurity.com
### Ordering Information

<table>
<thead>
<tr>
<th>Type</th>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 MP Camera</td>
<td>A42AM2Z</td>
<td>4 MP WDR HDCVI IR Dome Camera, White</td>
</tr>
<tr>
<td>Accessories, optional</td>
<td>PFA137</td>
<td>Junction box (For use alone)</td>
</tr>
<tr>
<td></td>
<td>PFB203W</td>
<td>Wall mount (For use alone or with PFA152 pole mount)</td>
</tr>
<tr>
<td></td>
<td>PFA152</td>
<td>Pole mount (For use with PFB203W wall mount)</td>
</tr>
<tr>
<td></td>
<td>PFB200C</td>
<td>In-ceiling mount (For use alone)</td>
</tr>
<tr>
<td></td>
<td>PFM810</td>
<td>PoC Transceiver</td>
</tr>
</tbody>
</table>

### Accessories

Optional:

- **PFA137**: Junction box
- **PFB203W**: Wall mount
- **PFA152**: Pole mount
- **PFB200C**: In-ceiling mount
- **PFM810**: PoC Transceiver