

# DH-HAC-HDBW1801R-Z

4K HDCVI IR Dome Camera



#### **System Overview**

Experience 4K video surveillance with the simplicity of reusing existing coaxial infrastructure. The 4K HDCVI camera adopts a powerful Dahua ISP and advanced 1/2.7" CMOS sensor, which provides superior high quality images. In addition, the camera features broadcastquality audio to provide enhanced supplementary evidence collection. Ultra-high definition and a complete set of features makes the 4K HDCVI camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are demanded.

#### **Functions**

#### 4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio\*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

\* Audio input is available for some models of HDCVI cameras.

#### **Long Distance Transmission**

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m transmission for 4K and 4MP HD video via coaxial cable, and up to 300m via UTP cable.

\*Actual results verified by real-scene testing in Dahua's test laboratory.

#### **Simplicity**

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

#### **Multi-formats**

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

\*Use OSD menu to switch HDCVI to other video formats.

- · 120dB true WDR, 3D NR
- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · Auto focus, 2.7-13.5mm motorized lens
- · Max. IR length 30m, smart IR
- · IP67, IK10, 12V±30% DC













#### Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

#### **Advanced 3D NR**

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. Dahua's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting condition. Besides, the advanced 3DNR effectively decreases the band width and saves the storage space.

#### **Protection**

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

The camera complies with an IK10 vandal resistance rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in).

Supporting  $\pm 30\%$  input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protectionagainst the camera and its structure from the effects of lightning.

| Technical Specification  |   | Certifications        |  |
|--------------------------|---|-----------------------|--|
| Camera                   |   | Certifications        | CE (EN55032, EN55024, EN50130-4)<br>FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) |
| Image Sensor             | 1/2.7 inch CMOS   |                       | UL (UL60950-1+CAN/CSA C22.2 No.60950-1)  |
| Effective Pixels         | 3840 (H)×2160 (V), 4K   | Port                  |  |
| Electronic Shutter Speed | PAL:1/3s-1/100000s<br>NTSC:1/4s-1/100000s                       | Video Port            | Video output choices of CVI/TVI/AHD/CVBS by one BNC port                               |
| Minimum Illumination     | 0.03Lux/F1.7, 30IRE, 0Lux IR on                                 | Power                 |  |
| IR Distance              | Distance up to 30m (98.42ft)                                    | Power Supply          | 12V ±30% DC  |
| IR On/Off Control        | Auto; manual  | Power Consumption     | Max 6.9W (12V DC, IR on)   |
| IR LED Number            | 2   | Environment           |  |
| Pan/Tilt/Rotation Range  | Pan: 0°–355°<br>Tilt: 0°–75°                                    | Operating Temperature | -30°C to +60°C (-22°F to 140°F);<95% (noncondensation)                                 |
| Lens                     | Rotation: 0°–355°"  | Storage Temperature   | -30°C to +60°C (-22°F to 140°F);<95% (noncondensation)                                 |
| Lens Type                | Motorized vari-focal  | Protection Grade      | IP67; IK10   |
| Mount Type               | ф14   | Structure             |  |
| Focal Length             | 2.7mm-13.5mm  | Casing                | Metal throughout the whole casing  |
| Max. Aperture            | F1.7  | Dimensions            | Ф122mm×88.9mm (Ф4.80"×3.50")   |
| Angle of View            | Horizontal: 105°–33°<br>Vertical: 56°–18°<br>Diagonal: 126°–38° | Net Weight            | 0.44kg (0.97lb)  |
|                          |   | Gross Weight          | 0.6kg (1.32lb)   |
| Iris Type                | Fixed iris  |                       |  |
| Auto Focus               | Yes   |                       |  |
| Close Focus Distance     | 0.8m (2.62ft)   |                       |  |
|                          |   |                       |  |

Identify

9m (30ft)

Recognize

18m (59ft)

106m (348ft) 53m (174ft) 26m (85ft)

Off/On (8 area, rectangle)

Off/On

Lens

Wide-angle

Telephoto

**DORI Distance** 

Video Frame Rate

Video

Resolution

Day/Night

BLC

Mirror

Privacy Masking

Detect

90m (295ft)

264m (866ft)

CVBS: PAL/NTSC

Auto switch by ICR

BLC/HLC/WDR

960H (960× 576/960×480)

Observe

36m (118ft)

CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps

AHD: 4K@15fps; 5M@20fps; 4M@25fps/30fps TVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps 4K (3840×2160); 5M (2592×1944); 4M (2560×1440);

# Lite Plus Series | DH-HAC-HDBW1801R-Z

| Ordering Information |                                       |  |  |  |
|----------------------|---------------------------------------|--|--|--|
| Туре                 | Part Number                           | Description  |  |  |
| 4K Camera            | DH-HAC-<br>HDBW1801RP-Z<br>2.7~13.5mm | 4K HDCVI IR Dome Camera, PAL                         |  |  |
|                      | DH-HAC-<br>HDBW1801RN-Z<br>2.7~13.5mm | 4K HDCVI IR Dome Camera, NTSC                        |  |  |
|                      | PFA137                                | Junction box (For use alone)                         |  |  |
|                      | PFB203W                               | Wall mount (For use alone or with PFA152 pole mount) |  |  |
|                      | PFA152-E                              | Pole mount (For use with PFB203W wall mount)         |  |  |
| Accessories          | PFM800-4K                             | Passive Video Balun                                  |  |  |
|                      | PFM800B-4K                            | Passive Video Balun                                  |  |  |
|                      | PFM320D-015                           | 12V 1.5A Power Adapter                               |  |  |
|                      | PFM300                                | 12V 2A Power Adapter                                 |  |  |

| Junction Mount | Pole Mount         |
|----------------|--------------------|
| PFA137         | PFB203W + PFA152-E |
|                |                    |
| Wall Mount     |                    |
| PFB203W        |                    |
|                |                    |

## Accessories

## **Optional:**



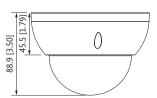
PFA137 Junction box (For use alone)



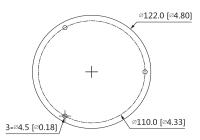
PFB203W Wall mount (For use alone or with PFA152 pole mount)



PFA152-E Pole mount (For use with PFB203W wall mount)



Dimensions (mm/inch)





PFM800B-4K Passive Video Balun



PFM800-4K Passive Video Balun



PFM320D-015 12V 1.5A Power Adapter



PFM300 12V 2A Power Adapter

