

# 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. Use PFM820 UTC Controller to switch CVBS to HDCVI video format.

- · 120dB true WDR, 3D NR
- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · 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.

Telephoto

Video

Video Frame Rate

Resolution

Day/Night

White Balance

Gain Control

Smart IR

Noise Reduction

Electronic Defog

Privacy Masking

Digital Zoom

Mirror

BLC

WDR

264m (866ft)

CVBS: PAL/NTSC

Auto switch by ICR

BLC/HLC/WDR

120dB/WDR

Auto; manual

Auto; manual

Off/On (8 area, rectangle)

2D&3D NR

Yes

Yes

4X Off/On

960H (960× 576/960×480)

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

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);

Technical Specification						Certifications	
Camera					Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)	
Image Sensor		1/2.7 inch CMOS				out amount on the	UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels		3840 (H)×2160 (V), 4K				Port	
Electronic Shutter Speed		PAL:1/3s-1/10 NTSC:1/4s-1/1				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° 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
						Dimensions	Ф122mm×88.9mm (Ф4.80"×3.50")
Max. Aperture		F1.7  Horizontal: 105°–33°				Net Weight	0.44kg (0.97lb)
Angle of View		Vertical: 105"–33" Vertical: 56°–18° Diagonal: 126°–38°				Gross Weight	0.6kg (1.32lb)
Iris Type		Fixed iris					
Close Focus Distance		0.8m (2.62ft)					
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	Wide-angle	90m (295ft)	36m (118ft)	18m (59ft)	9m (30ft)		

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

Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC- HDBW1801RP-Z 2.7~13.5mm	4K HDCVI IR Dome Camera, PAL					
4K Camera	DH-HAC- HDBW1801RN-Z 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)					
	PFM820	UTC Controller					
Accessories	PFM800-E	Passive HDCVI Balun					
	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	

# Dimensions (mm/inch)

## **Accessories**

#### Optional:



Junction box



(For use alone)



PFM820 UTC Controller



PFM800-E Passive HDCVI Balun



PFB203W

Wall mount



PFA152-E

Pole mount (For use with PFB203W

wall mount)

PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM320D-015 12V 1.5A Power Adapter



PFM300 12V 2A Power Adapter





