

DH-HAC-HDBW1801E

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
- · Fixed lens (2.8mm; 3.6mm optional)
- · 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) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014
Image Sensor		1/2.7 inch CMOS				Certifications	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 NTSC: 1/4s-1/100000s				Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Minimum Illumination		0.03Lux/F2.0, 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 4.8W (12V DC, IR on)
IR LED Number		12				Environment	
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65°				Operating Temperature	-40°C to +60°C (-40°F to 140°F);<95% (noncondensation)
Lens		Rotation: 0°–355°				Storage Temperature	-40°C to +60°C (-40°F to 140°F);<95% (non-condensation)
Lens Type		Fixed focal				Protection Grade	IP67; IK10
Mount Type		M12				Structure	
Focal Length		2.8mm; 3.6mm				Casing	Metal throughout the whole casing
Max. Aperture		F2.0				Dimensions	Ф109.9mm×81.0mm (Ф4.33"×3.19")
·		2.8mm: 125°×105°×56° (diagonal×horizontal×vertical)				Net Weight	0.32kg (0.71lb)
Angle of View		3.6mm: 104°×87°×47° (diagonal×horizontal×vertical)				Gross Weight	0.46kg (1.01lb)
Iris Type		Fixed iris					
Close Focus Distance		1m/1.8m (3.28ft/5.9ft)					
	Lens	Detect	Observe	Recognize	Identify		

DORI Distance 3.6mm

6mm

Video Frame Rate	CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps; CVBS: PAL/NTSC AHD: 4K@15fps; 5M@20fps; 4M@25fps/30fps TVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps		
Resolution	4K (3840×2160); 5M (2592×1944); 4M (2560×1440); 960H (960× 576/960×480)		
Day/Night	Auto switch by ICR		
BLC	BLC/HLC/WDR		
WDR	120dB/WDR		
White Balance	Auto; manual		
Gain Control	Auto; manual		
Noise Reduction	2D&3D NR		
Smart IR	Yes		
Electronic Defog	Yes		
Digital Zoom	4X		
Mirror	Off/On		
Privacy Masking	Off/On (8 area, rectangle)		

107m(351ft)

160m(525ft)

43m(141ft)

64m(210ft)

21m(69ft) 11m(36ft)

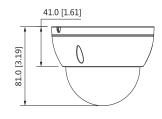
32m(105ft) 16m(52ft)

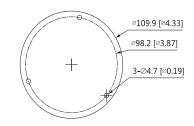
Lite Plus Series | DH-HAC-HDBW1801E

Ordering Information						
Туре	Part Number	Description				
	DH-HAC- HDBW1801EP 2.8mm	4K HDCVI IR Dome Camera, PAL				
Al/ Company	DH-HAC- HDBW1801EP 3.6mm					
4K Camera	DH-HAC- HDBW1801EN 2.8mm					
	DH-HAC- HDBW1801EN 3.6mm	4K HDCVI IR Dome Camera, NTSC				
	PFA136	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
PFA136	PFB203W + PFA152-E
Wall Mount	
PFB203W	

Dimensions (mm/inch)





Accessories

Optional:



PFA136 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)



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM320D-015 12V 1.5A Power Adapter



PFM300 12V 2A Power Adapter

