

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

- · 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.

DORI Distance

Video Frame Rate

Resolution

Day/Night

BLC

WDR

White Balance

Gain Control

Smart IR

Noise Reduction

Electronic Defog

Privacy Masking

Digital Zoom

Mirror

Video

3.6mm

6mm

107m(351ft)

160m(525ft)

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 43m(141ft)

64m(210ft)

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); 960H (960× 576/960×480)

21m(69ft)

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

11m(36ft)

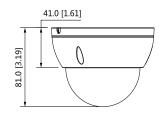
Technical Specification				Certifications		
Camera			Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)		
Image Sensor	1/2.7 inch CM	1/2.7 inch CMOS				UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Effective Pixels	3840 (H)×2160	3840 (H)×2160 (V), 4K			Port	
Electronic Shutter Spee		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,	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 Rang					Operating Temperature	-40°C to +60°C (-40°F to 140°F);<95% (noncondensation)
Rotation: 0°–355°			Storage Temperature	-40°C to +60°C (-40°F to 140°F);<95% (noncondensation)		
Lens			Protection Grade	IP67; IK10		
Lens Type Fixed focal			Structure			
Mount Type	M12					
Focal Length	2.8mm; 3.6mr	n			Casing	Metal throughout the whole casing
Max. Aperture	F2.0				Dimensions	Ф109.9mm×81.0mm (Ф4.33"×3.19")
Angle of View		105°×56° (diagon			Net Weight	0.32kg (0.71lb)
		87°×47° (diagona	l×horizontal×	vertical)	Gross Weight	0.46kg (1.01lb)
Iris Type		Fixed iris				
Close Focus Distance	1m/1.8m (3.28	1m/1.8m (3.28ft/5.9ft)				
Lens	Detect	Observe	Recognize	Identify		

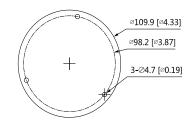
Lite Plus Series | DH-HAC-HDBW1801E

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

Dimensions (mm/inch)





Accessories

Optional:



PFA136 Junction box (For use alone)



PFM820 UTC Controller



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



PFM800-E Passive HDCVI Balun



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

