

DH-HAC-HFW1801TH-I4

4K HDCVI IR Bullet Camera



- · 120dB True WDR, 3DNR
- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 40m, Smart IR
- · IP67, 12V±30%DC



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.

Multiple-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

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 3DNR

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. Supporting $\pm 30\%$ 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.

Lite Series | DH-HAC-HFW1801TH-I4

Technical Specification Camera 1/2.7 inch CMOS Image Sensor Effective Pixels 3840 (H) × 2160 (V), 4K PAL:1/3s-1/100000s Electronic Shutter Speed NTSC:1/4s-1/100000s Minimum Illumination 0.03Lux/F2.0, 30IRE, OLux IR on IR Distance Distance up to 40 m (131.23 ft) IR On/Off Control Auto; manual IR LEDs Number 1 Pan: 0°-360° Tilt: 0°–180° Pan/Tilt/Rotation Range Rotation: 0°-360° Lens Lens Type Fixed-focal M12 Mount Type Focal Length 2.8 mm; 3.6 mm; 6 mm Max. Aperture F2.0 2.8 mm: 125° × 105° × 56° (diagonal × horizontal × vertical) 3.6 mm: 104° × 87° × 47° Angle of View (diagonal × horizontal × vertical) 6 mm: 62.4° × 54.7° × 31.3° (diagonal × horizontal × vertical) Iris Type Fixed iris Min Photographic Distance 1.0 m/1.8 m/3.6 m (3.28 ft/5.90 ft/11.81 ft) Lens Detect Observe Recognize Identify 14.9 m 7.5 m 29.9 m 74.7 m 2.8mm (245.07 ft) (24.60 ft) (98.09 ft) (48.88 ft) DORI Distance 106.7 m 21.3 m 10.7 m 42.7 m 3.6mm (350.06 ft) (140.09 ft) (69.88 ft) (35.10 ft) 160.0 m 64.0 m 32.0 m 16.0 m 6 mm

Smart IR	Yes
Electronic Defog	Yes
Digital Zoom	4X
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Port	
Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12V±30% DC
Power Consumption	Max 4.4W (12V DC, IR on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Storage Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Protection Grade	IP67
Structure	
Casing	Metal front face + plastic main body + metal bracket
Dimensions	240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56")
Net Weight	410 g (0.90 lb)
Gross Weight	616 g (1.36 lb)

Video

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

(525 ft)

(210 ft)

(105 ft)

(52 ft)

Lite Series | DH-HAC-HFW1801TH-I4

Ordering Information			
Туре	Part Number	Description	
4K Camera HFV 4K Camera DH- HFV DH- HFV DH- HFV DH- HFV DH-	DH-HAC- HFW1801THP-I4 2.8mm	4K HDCVI IR Bullet Camera, PAL	
	DH-HAC- HFW1801THP-I4 3.6mm		
	DH-HAC- HFW1801THP-I4 6mm		
	DH-HAC- HFW1801THN-I4 2.8mm		
	DH-HAC- HFW1801THN-I4 3.6mm	4K HDCVI IR Bullet Camera, NTSC	
	DH-HAC- HFW1801THN-I4 6mm		
PFA130-E + F PFA12A DH-PFM3201 DH-PFM321- DH-PFM321- DH-PFM321- DH-PFM321- DH-PFM321-	PFA130-E	Water-proof junction box (ceiling mount)	
	PFA130-E + PFA152-E	Water-proof wall mount bracket + pole mount bracket (pole mount)	
	PFA130-E + PFA151	Water-proof wall mount bracket+corner bracket (corner mount)	
	PFA12A	Plastic junction box	
	DH-PFM320D-015	12V 1.5A DC power adapter	
	DH-PFM321-EN	12V 1A DC power adapter (for european countries)	
	DH-PFM321-BS	12V 1A DC power adapter (for UK)	
	DH-PFM321-US	12V 1A DC power adapter (for US)	
	DH-PFM906	Integrated mount tester	
	DH-PFM800-4K	Passive video balun	



Integrated mount tester

Wall Mount	Wall Mount
PFA12A	PFA130-E
Corner Mount	Pole Mount
PFA130-E + PFA151	PFA130-E + PFA152-E

Dimensions (mm[inch])

Accessories

Optional:



PFA130-E Water-proof junction box (ceiling mount)



PFA12A Plastic junction box



DH-PFM321-BS 12V 1A DC power adapter (for UK)



PFA130-E + PFA152-E

Water-proof wall mount

bracket + pole mount bracket

(pole mount)

DH-PFM320D-015

12V 1.5A DC power adapter

DH-PFM321-US

12V 1A DC power adapter

(for US)



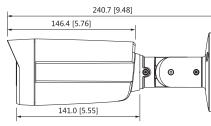


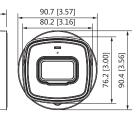


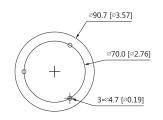
DH-PFM321-EN 12V 1A DC power adapter (for european countries)



DH-PFM800-4K Passive video balun









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