

DH-HAC-HFW1801TH-I8

4K HDCVI IR Bullet 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.

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.

- · 120dB True WDR, 3DNR
- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · 3.6mm fixed lens (6mm optional)
- · Max. IR length 80m, Smart IR
- · IP67, 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 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 ±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-I8

Technical Specification						Electronic Defog	Yes
Camera						Digital Zoom	4X
Image Sensor		1/2.7 inch CMOS				Mirror	Off/On
Effective Pixels		3840 (H) × 2160 (V), 4K				Privacy Masking	Off/On (8 area, rectangle)
Electronic Shutter Speed		PAL:1/3s-1/3 NTSC:1/4s-1				Certifications	
Minimum Illumination		0.03Lux/F2.0), 30IRE, 0Lux I	Ron		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)
IR Distance		Distance up to 80 m (262.46 ft)				Port	01(0100550 1. 0, 05., 022.2 1.0.00550 1,
IR On/Off Control		Auto; manual					Video output choices of CVI/TVI/AHD/CVBS by one
IR LEDs Number		2				Video Port	BNC port
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–360°				Power	
						Power Supply	12V±30% DC
Lens						Power Consumption	Max 5.9W (12V DC, IR on)
Lens Type		Fixed-focal				Environment	
Mount Type		M12				Operating Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Focal Length		3.6 mm; 6 mm				Storage Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Max. Aperture		F2.0				Protection Grade	IP67
Angle of View		3.6 mm: 104°×87°×47° (diagonal × horizontal × vertical) 6 mm: 62.4° × 54.7° × 31.3° (diagonal × horizontal × vertical)				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")
Iris Type		Fixed iris				Net Weight	410 g (0.90 lb)
Min Photographic Distance		1.8 m/3.6 m (5.91 ft/11.81 ft)				Gross Weight	616 g (1.36 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	3.6mm	106.7 m (350.06 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)		
	6 mm	160.0 m (525 ft)	64.0 m (210 ft)	32.0 m (105 ft)	16.0 m (52 ft)		

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	
Smart IR	Yes	

Lite Series | DH-HAC-HFW1801TH-I8

Ordering Information					
Туре	Part Number	Description			
	DH-HAC- HFW1801THP-I8 3.6mm	4K HDCVI IR Bullet Camera, PAL			
4K Camera	DH-HAC- HFW1801THP-I8 6mm				
	DH-HAC- HFW1801THN-I8 3.6mm	4K HDCVI IR Bullet Camera, NTSC			
	DH-HAC- HFW1801THN-I8 6mm	ACTION IN BUILT CUITICIA, IVISC			
	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			
Accessories	DH-PFM320D-015	12V 1.5A DC power adapter			
7.6663301163	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			



Wall Mount	Wall Mount	
PFA12A	PFA130-E	
0		
Corner Mount	Pole Mount	
PFA130-E + PFA151	PFA130-E + PFA152-E	

Accessories

Optional:



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-PFM800-4K Passive video balun

Dimensions (mm[inch])



