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# DH-HAC-HFW1801TH-I8

## 4K HDCVI IR Bullet Camera



- 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



### 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 broadcast quality 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 ±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.

Technical Specification						
Camera						
Image Sensor		1/2.7 inch CMOS				
Effective Pixels		3840 (H) × 2160 (V), 4K				
Electronic Shutter Speed		PAL:1/3s–1/100000s NTSC:1/4s–1/100000s				
Minimum Illumination		0.03Lux/F2.0, 30IRE, 0Lux IR on				
IR Distance		Distance up to 80 m (262.46 ft)				
IR On/Off Control		Auto; manual				
IR LEDs Number		2				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Mount Type		M12				
Focal Length		3.6 mm; 6 mm				
Max. Aperture		F2.0				
Angle of View		3.6 mm: 104°×87°×47° (diagonal × horizontal × vertical) 6 mm: 62.4° × 54.7° × 31.3° (diagonal × horizontal × vertical)				
Iris Type		Fixed iris				
Min Photographic Distance		1.8 m/3.6 m (5.91 ft/11.81 ft)				
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				
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 5.9W (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)				

## Ordering Information

Type	Part Number	Description
4K Camera	DH-HAC-HFW1801THP-I8 3.6mm	4K HDCVI IR Bullet Camera, PAL
	DH-HAC-HFW1801THP-I8 6mm	
	DH-HAC-HFW1801THN-I8 3.6mm	4K HDCVI IR Bullet Camera, NTSC
	DH-HAC-HFW1801THN-I8 6mm	
Accessories	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



DH-PFM906  
Integrated mount tester

Wall Mount	Wall Mount
PFA12A	PFA130-E
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])

