

# DH-HAC-HFW1801T/T-A

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.

## **Broadcast-quality Audio**

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

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















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

#### **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 protectionagainst the camera and its structure from the effects of lightning.

Technical Specification					Certifications		
Camera Image Sensor		1/2.7 inch CMOS				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)
Effective Pixels		3840 (H)×2160 (V), 4K				Interface	
Electronic Shutter Speed		PAL: 1/3s-1/100000s NTSC: 1/4s-1/100000s				Audio Interface	Built-in Mic (-A)
Minimum Illumination		0.03Lux/F2.0, 30IRE, OLux IR on				Port	
IR Distance		Distance up to 30m (98.43ft)				Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
IR On/Off Control		Auto/Manual				Power	
IR LEDs		1				Power Supply	12V±30% DC
		Pan: 0°–360°				Power Consumption	Max 5.2W (12V DC, IR on)
Pan/Tilt/Rotation Range		Tilt: 0°–180° Rotation: 0°–360°				Environment	
Lens						Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Lens Type		Fixed-focal				Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Mount Type		M12				Protection Grade	IP67
Focal Length		2.8mm; 3.6mm; 6mm				Structure	
Max. Aperture		F2.0  2.8mm: 125°×105°×56° (diagonal×horizontal×vertical)				Casing	Metal throughout the whole casing
Angle of View		3.6mm: 125 ×105 ×56 (diagonal×horizontal×vertical) 6mm: 62.4°×54.7°×31.3° (diagonal×horizontal×vertical)				Dimensions	174.5mm×70.6mm×72.3mm (6.87"×2.78"×2.85")
Iris type		Fixed Iris				Net Weight	350g (0.77lb)
Close Focus Distance		1m/1.8m/3.6m (3.28ft/5.91ft/11.81ft)				Gross Weight	450g (0.99lb)
	Lens	Detect	Observe	Recognize	Identify		
	2.8mm	75m(246ft)	30m(98ft)	15m(49ft)	8m(26ft)		
DORI Distance	3.6mm	107m(351ft)	43m(141ft)	21m(69ft)	11m(36ft)		

# Video

6mm

Video Frame Rate	CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps CVBS: PAL/NTSC AHD: 5M@20fps; 4M@25fps/30fps TVI: 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)		

160m(525ft)

64m(210ft) 32m(105ft) 16m(52ft)

Ordering Information								
Туре	Part Number	Description						
	DH-HAC- HFW1801TP- 0280B							
	DH-HAC- HFW1801TN- 0280B							
	DH-HAC- HFW1801TP- 0360B							
	DH-HAC- HFW1801TN- 0360B							
	DH-HAC- HFW1801TP- 0600B							
	DH-HAC- HFW1801TN- 0600B	4K HDCVI IR Bullet Camera						
4K Camera	DH-HAC- HFW1801TP-A- 0280B							
	DH-HAC- HFW1801TN-A- 0280B							
	DH-HAC- HFW1801TP-A- 0360B							
	DH-HAC- HFW1801TN-A- 0360B							
	DH-HAC- HFW1801TP-A- 0600B							
	DH-HAC- HFW1801TN-A- 0600B							
	PFA134	Water-proof Junction Box (wall mount)						
	PFA134+PFA152-E	Water-proof Junction Box+Pole Mount Bracket (pole mount)						
	PFM800-E	Passive HDCVI Balun						
Accessories	PFM321	12V 1A Power Adapter						
	PFM320	12V 2A Power Adapter						
	PFM320D-015	12V 1.5A Power Adapter						

## Accessories

# **Optional:**









Water-proof Junction Box+

Pole Mount Bracket (pole mount)



PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM320 12V 2A Power Adapter



PFM320D-015 12V 1.5A Power Adapter

Junction Mount	Wall Mount	Pole Mount
PFA134	_	PFA134+PFA152-E
<b>6</b>	00	

# Dimensions (mm/inch)





