

# DH-HAC-HFW1800TL/TL-A

4K Real-time HDCVI IR Bullet Camera



- Max. 4K resolution, real-time video transmission
- · CVI/CVBS/AHD/TVI switchable
- · Built-in mic (-A)
- · Fixed lens (2.8mm; 3.6mm; 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 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.

#### **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

#### **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.

#### Smart IR

The camera is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

# 4K Real-time Image Display

Used together with 4K Real-time XVR, the camera can output 4K real-time video stream with clear details and no lag or smear.

# Lite Series | DH-HAC-HFW1800TL/TL-A

Technical Specification					Noise Reduction	2D NR	
Camera					Smart IR	Yes	
Image Sensor		1/2.7 inch CMOS				Mirror	Off/On
Effective Pixels		3840 (H)× 2160 (V), 4K				Privacy Masking	Off/On (8 area, rectangle)
Scanning System		Progressive				Certifications	
Electronic Shutter Speed		PAL: 1/25s–1/100000s NTSC: 1/30s–1/100000s				Certifications	CE (EN55032, EN55024, EN50130-4, EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-20. UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
S/N Ratio		>65dB				Port	0E (0E00000 TEANY COA C22.2 NO.00000 T)
Minimum Illumination		0.03Lux/F2.0, 30IRE, 0Lux IR on				Video Output  Video Output  Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Fill Light Working Distance		80m(262.5ft)					
IR On/Off Control		Auto; manual				Audio Input	One channel, built-in mic (-A)
IR LED Number		2				Power	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Power Supply	12V ±30% DC
		Rotation: 0°–360°				Power Consumption	Max 6W (12V DC, IR on)
Lens					Environment		
Lens Type		Fixed-focal				Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Mount Type		M12				_	-40°C to +60°C (-40°F to 140°F);
Focal Length		2.8mm; 3.6mm;6mm				Storage Temperature	<95% (non-condensation)
Max. Aperture		F2.0				Protection Grade	IP67
Angle of View		2.8mm: 125° x 105° x 56° (diagonal x horizontal x vertical) 3.6mm: 104° x 87° x 47° (diagonal x horizontal x vertical) 6mm:62.4° x54.7° x31.3° (diagonal x horizontal x vertical)				Structure	
						Casing	Metal front cover+plastic main body+plastic brac
						Camera Dimensions	198.9mm×80.2mm×76.2mm(7.83"×3.16"×3.0")
Iris Type		Fixed iris				Net Weight	0.28Kg (0.62lb)
Close Focus Distance		2.8mm: 1.0 m (3.3 ft) 3.6mm: 1.9 m (6.2 ft) 6mm:3.6m(11.8ft)				Gross Weight	0.42Kg (0.93lb)
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	2.8mm	74.7 m (245.1 ft)	29.9 m (98.1 ft)	14.9 m (48.9ft)	7.5 m (24.6 ft)		
	3.6mm	106.7 m (350.1 ft)	42.7 m (140.1 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)		

Auto; manual

960H (960 × 576/960 × 480)

(524.9 ft)

AHD: 4K@15fps; TVI: 4K@15fps; CVBS: 960H"

160m

6mm

Video

Frame Rate

Resolution

Gain Control

64 m

(210.0ft)

CVI: 4K@25/30fps; 4K@15fps; 5M@20fps; 4M@25fps/30fps;

4K (3840 × 2160); 5M (2592 × 1944); 4M (2560 × 1440);

(105.0ft)

32 m

16 m

(52.5ft)

Ordering Information								
Туре	Part Number	Description						
	DH-HAC-HFW1800TLP 2.8mm DH-HAC-HFW1800TLP							
	3.6mm							
	DH-HAC-HFW1800TLP 6mm							
	DH-HAC-HFW1800TLN 2.8mm							
	DH-HAC-HFW1800TLN 3.6mm							
4K Camera	DH-HAC-HFW1800TLN 6mm	4K HDCVI IR Bullet Camera						
4K Camera	DH-HAC- HFW1800TLP-A 2.8mm	4K RDCVI IK Bullet Califera						
	DH-HAC- HFW1800TLP-A 3.6mm							
	DH-HAC- HFW1800TLP-A 6mm							
	DH-HAC- HFW1800TLN-A 2.8mm							
	DH-HAC- HFW1800TLN-A 3.6mm							
	DH-HAC- HFW1800TLN-A 6mm							
	PFA134	Water-proof Junction Box						
	PFA134+PFA152-E	Water-proof Junction Box+Pole Mount Bracket						
	PFA12A	Plastic Junction Box						
Accessories	PFM800-4K	Passive Video Balun						
	PFM800B-4K	Passive Video Balun						
	PFM320D Series	12V 2A Power Adapter						
	PFM321D Series	12V 1A Power Adapter						
	PFM320D-015	DC12V1.5A Power Adapter						



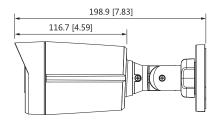


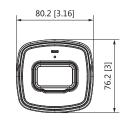


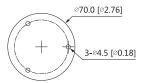
PFM320D-015 DC12V1.5A Power Adapter

Junction Mount	Junction Mount	Pole Mount	
PFA134	PFA12A	PFA134+PFA152-E	
0			

# Dimensions (mm[inch])



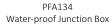




### **Accessories**

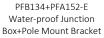
# **Optional:**













PFA12A Plastic Junction Box



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM320D Series 12V 2A Power Adapter

