

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 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 XVR, 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 protection against 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.

Technical Specification						BLC	BLC/HLC/WDR
Camera						WDR	DWDR
Image Sensor	1/2.7 inch CMOS					White Balance	Auto; manual
Effective Pixels	3840 (H)× 2160 (V), 4K					Gain Control	Auto; manual
Scanning System	Progressive					Noise Reduction	2D NR
Electronic Shutter Speed	PAL: 1/25s~1/100000s NTSC: 1/30s~1/100000s					Smart IR	Yes
S/N Ratio	>65dB					Mirror	Off/On
Minimum Illumination	0.03Lux/F2.0, 30IRE, 0Lux IR on					Privacy Masking	Off/On (8 area, rectangle)
Fill Light Working Distance	80m(262.5ft)					Certifications	
IR On/Off Control	Auto; manual					Certifications	CE (EN55032, EN55024, EN50130-4, EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
IR LED Number	2					Port	
Pan/Tilt/Rotation Range	Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens						Power	
Lens Type	Fixed-focal					Power Supply	12V ±30% DC
Mount Type	M12					Power Consumption	Max 6W (12V DC, IR on)
Focal Length	2.8mm; 3.6mm; 6mm					Environment	
Max. Aperture	F2.0					Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
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° x 54.7° x 31.3° (diagonal x horizontal x vertical)					Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)
Iris Type	Fixed iris					Protection Grade	IP67
Close Focus Distance	2.8mm: 1.0 m (3.3 ft) 3.6mm: 1.9 m (6.2 ft) 6mm: 3.6m(11.8ft)					Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Casing	Metal front cover+plastic main body+plastic bracket
	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)	Camera Dimensions	198.9mm×80.2mm×76.2mm(7.83"×3.16"×3.0")
	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)	Net Weight	0.28Kg (0.62lb)
	6mm	160m (524.9 ft)	64 m (210.0ft)	32 m (105.0ft)	16 m (52.5ft)	Gross Weight	0.42Kg (0.93lb)
*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.							
Video							
Frame Rate	CVI: 4K@25/30fps; 4K@15fps; 5M@20fps; 4M@25fps/30fps; AHD: 4K@15fps; TVI: 4K@15fps; CVBS: 960H"						
Resolution	4K (3840 × 2160); 5M (2592 × 1944); 4M (2560 × 1440); 960H (960 × 576/960 × 480)						
Day/Night	Auto switch by ICR						

Ordering Information

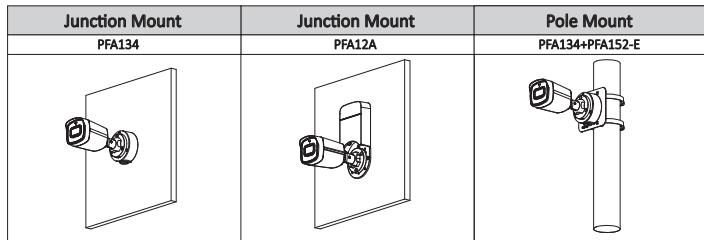
Type	Part Number	Description
4K Camera	DH-HAC-HFW1800TLP 2.8mm	4K HDCVI IR Bullet Camera
	DH-HAC-HFW1800TLP 3.6mm	
	DH-HAC-HFW1800TLP 6mm	
	DH-HAC-HFW1800TLN 2.8mm	
	DH-HAC-HFW1800TLN 3.6mm	
	DH-HAC-HFW1800TLN 6mm	
	DH-HAC-HFW1800TLP-A 2.8mm	
	DH-HAC-HFW1800TLP-A 3.6mm	
	DH-HAC-HFW1800TLP-A 6mm	
	DH-HAC-HFW1800TLN-A 2.8mm	
Accessories	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
	PFM800-4K	Passive Video Balun
	PFM800B-4K	Passive Video Balun
Power Adapter	PFM320D Series	12V 2A Power Adapter
	PFM321D Series	12V 1A Power Adapter
	PFM320D-015	DC12V1.5A Power Adapter



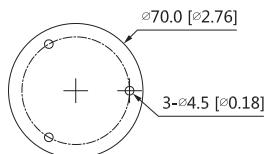
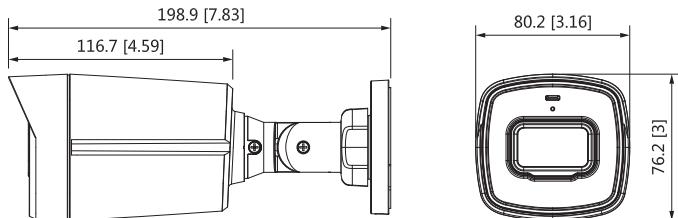
PFM321D Series
12V 1A Power Adapter



PFM320D-015
DC12V1.5A Power Adapter



Dimensions (mm[inch])



Accessories

Optional:



PFA134
Water-proof Junction Box



PFB134+PFA152-E
Water-proof Junction
Box+Pole Mount Bracket



PFA12A
Plastic Junction Box



PFM800-4K
Passive Video Balun



PFM800B-4K
Passive Video Balun



PFM320D Series
12V 2A Power Adapter