

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 transmis-

sion 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							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			
S/N Ratio		>65dB					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)			
Minimum Illumination		0.03Lux/F2.0, 30IRE, 0Lux IR on					Port			
Fill Light Working Distance		80m(262.5ft)					Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
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° Rotation: 0°–360°					Power Supply		12V ±30% DC	
							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					Storage Temperature		-40°C to +60°C (-40°F to 140°F); <95% (non-condensation)	
Focal Length		2.8mm; 3.6mm;6mm					Protection Grade		IP67	
Max. Aperture		F2.0					Structure			
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)					Casing		Metal front cover+plastic main body+plastic bracket	
Iris Type		Fixed iris					Camera Dimensions		198.9mm×80.2mm×76.2mm(7.83″×3.16″×3.0″)	
Close Focus Distance		2.8mm: 1.0 m (3.3 ft) 3.6mm: 1.9 m (6.2 ft) 6mm:3.6m(11.8ft)					Net Weight		0.28Kg (0.62lb)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Gross Weight		0.42Kg (0.93lb)	
	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)					
	6mm	160m (524.9 ft)	64 m (210.0ft)	32 m (105.0ft)	16 m (52.5ft)					
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								
BLC		BLC/HLC/WDR								
WDR		DWDR								
White Balance		Auto; manual								
Gain Control		Auto; manual								

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	
	DH-HAC-HFW1800TLN-A 3.6mm	
	DH-HAC-HFW1800TLN-A 6mm	
Accessories	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
	PFM320D Series	12V 2A Power Adapter
	PFM321D Series	12V 1A Power Adapter
	PFM320D-015	DC12V1.5A Power Adapter



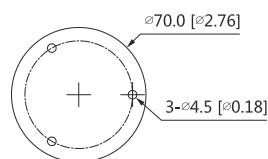
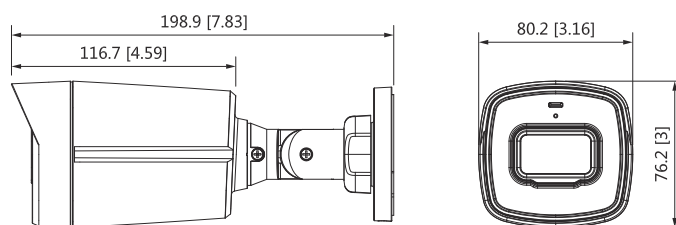
PFM321D Series
12V 1A Power Adapter



PFM320D-015
DC12V1.5A Power Adapter

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

Dimensions (mm[inch])



Accessories

Optional:



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



PFM320D Series
12V 2A Power Adapter