

DH-HAC-HFW1800TH-I8

4K Real-time HDCVI IR Bullet Camera



- Max. 4K resolution, real-time video transmission
- · CVI/CVBS/AHD/TVI switchable
- Fixed lens (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 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.

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.

Lite Series | DH-HAC-HFW1800TH-I8

Technical Specification					Gain Control	Auto; manual	
Camera						Noise Reduction	2D NR
Image Sensor		1/2.7 inch CMOS				Smart IR	Yes
Effective Pixels		3840 (H)× 2160 (V), 4K				Mirror	Off/On
Scanning System		Progressive				Privacy Masking	Off/On (8 area, rectangle)
Electronic Shutter Speed		PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Certifications	
S/N Ratio		>65dB				Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Minimum Illun	nination	0.03Lux/F2.0, 30IRE, 0Lux IR on					UL (UL60950-1+CAN/CSA C22.2 No.60950-1)
Fill Light Work	ing Distance	80m(262.5ft)				Port	
IR On/Off Control		Auto; manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
IR LED Number		2				Power	
		"Pan: 0°–360°				Power Supply	12V ±30% DC
Pan/Tilt/Rotat	ion Range	Tilt: 0°–90° 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% (noncondensation)
Mount Type		M12				Storage Temperature	-40°C to +60°C (-40°F to 140°F);<95% (non- condensation)
Focal Length		3.6mm;6mm				Protection Grade	IP67
Max. Aperture		F2.0				Structure	
Angle of View		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+metal bracket
						Camera Dimensions	240.7mm×90.7m×90.4mm (9.48"×3.57"×3.56")
Iris Type		Fixed iris				Net Weight	0.42Kg (0.93lb)
Close Focus Distance		3.6mm: 1.9 m (6.2 ft) 6mm:3.6m(11.8ft)				Gross Weight	0.62Kg (1.37lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify		
	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)		
	*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
BLC	BLC/HLC/WDR
WDR	DWDR
White Balance	Auto; manual

Ordering Information					
Туре	Part Number	Description			
	DH-HAC-HFW1800THP- I8-0360B	4K HDCVI IR Bullet Camera			
4K Camera	DH-HAC-HFW1800THP- I8-0600B				
4K Camera	DH-HAC-HFW1800THN- I8-0360B				
	DH-HAC-HFW1800THN- I8-0600B				
	PFA12A	Plastic Junction Box			
	PFA130-E+PFA151	Water-proof Junction Box+Corner Mount Bracket			
	PFA130-E+PFA152-E	Water-proof Junction Box+Pole Mount Bracket			
	PFA130-E	Water-proof 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			

Wall Mount	Wall Mount	
PFA12A	PFA130-E	
Corner Mount	Pole Mount	
PFA130-E+PFA151	PFA130-E+PFA152-E	

Dimensions (mm[inch])

Accessories

Optional:



PFA12A Plastic Junction Box











PFA130-E+PFA152-E Water-proof Junction Box+Pole Mount Bracket



PFA130-E Water-proof Junction Box



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM320D Series 12V 2A Power Adapter



PFM321D Series 12V 2A Power Adapter



PFM320D-015 DC12V1.5A Power Adapter



