

# DH-HAC-HFW1801TH-I4

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
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 40m, 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.Note 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 protection against the camera and its structure from the effects of lightning.

# Lite Series | DH-HAC-HFW1801TH-I4

Technical Specification						Smart IR	Yes
Camera						Electronic Defog	Yes
Image Sensor		1/2.7 inch CMOS				Digital Zoom	4X
Effective Pixels		3840 (H) × 2160 (V), 4K				Mirror	Off/On
Electronic Sh	utter Speed	PAL:1/3s-1/100000s NTSC:1/4s-1/100000s				Privacy Masking	Off/On (8 area, rectangle)
Minimum Illu	ımination	0.03Lux/F2.0, 30IRE, 0Lux IR on				Certifications	
IR Distance		Distance up to 40 m (131.23 ft)				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)
IR On/Off Co	ntrol	Auto; manual				Port	01 (0100550 11 c/m) c5/(022.2 NO.00550 1)
IR LEDs Number		1					Video output choices of CVI/TVI/AHD/CVBS by one
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-180° Rotation: 0°-360°				Video Port	BNC port
						Power	
Lens						Power Supply	12V±30% DC
Lens Type		Fixed-focal				Power Consumption	Max 4.4W (12V DC, IR on)
Mount Type		M12				Environment	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Operating Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Max. Aperture		F2.0				Storage Temperature	-40°C to +60°C (-40°F to +140°F); <95% (non-condensation)
Angle of View		2.8 mm: 125° × 105° × 56° (diagonal × horizontal × vertical)				Protection Grade	IP67
		(diagonal × h	l° × 87° × 47° norizontal × ver × 54.7° × 31.3°	,		Structure	
		6 mm: 62.4° × 54.7° × 31.3° (diagonal × horizontal × vertical)				Casing	Metal front face + plastic main body + metal bracket
Iris Type		Fixed iris				Dimensions	240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56")
Min Photographic Distance		1.0 m/1.8 m/3.6 m (3.28 ft/5.90 ft/11.81 ft)				Net Weight	410 g (0.90 lb)
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight	616 g (1.36 lb)
	2.8mm	74.7 m (245.07 ft)	29.9 m (98.09 ft)	14.9 m (48.88 ft)	7.5 m (24.60 ft)		
	3.6mm	106.7 m (350.06 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)		
	6 mm	160.0 m (525 ft)	64.0 m (210 ft)	32.0 m (105 ft)	16.0 m (52 ft)		

### Video

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

## Lite Series | DH-HAC-HFW1801TH-I4

Ordering Information						
Туре	Part Number	Description				
	DH-HAC- HFW1801THP-I4 2.8mm	4K HDCVI IR Bullet Camera, PAL				
	DH-HAC- HFW1801THP-I4 3.6mm					
4K Camera	DH-HAC- HFW1801THP-I4 6mm					
	DH-HAC- HFW1801THN-I4 2.8mm	4K HDCVI IR Bullet Camera, NTSC				
	DH-HAC- HFW1801THN-I4 3.6mm					
	DH-HAC- HFW1801THN-I46mm					
	PFA130-E	Water-proof junction box (ceiling mount)				
	PFA130-E + PFA152-E	Water-proof wall mount bracket + pole mount bracket (pole mount)				
	PFA130-E + PFA151	Water-proof wall mount bracket+corner bracket (corner mount)				
	PFA12A	Plastic junction box				
	DH-PFM320D-015	12V 1.5A DC power adapter				
Accessories	DH-PFM321-EN	12V 1A DC power adapter (for european countries)				
	DH-PFM321-BS	12V 1A DC power adapter (for UK)				
	DH-PFM321-US	12V 1A DC power adapter (for US)				
	PFM820	UTC controller				
	DH-PFM906	Integrated mount tester				
	DH-PFM800-4K	Passive video balun				





DH-PFM906 Integrated mount tester

Passive video balun

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

#### **Accessories**

#### Optional:



PFA130-E

Water-proof junction

box (ceiling mount)









PFA130-E + PFA152-E Water-proof wall mount bracket + pole mount bracket







(pole mount)







PFA12A

Plastic junction box

DH-PFM321-BS 12V 1A DC power adapter (for UK)



DH-PFM320D-015

12V 1.5A DC power adapter

DH-PFM321-US 12V 1A DC power adapter (for US)



PFM820 UTC controller

#### Dimensions (mm[inch])





