

# DH-HAC-HFW1801R-Z-IRE6/R-Z-IRE6-A

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.

\*Broadcast-quality audio is available for some models of HDCVI cameras.

- · 120dB true WDR, 3D NR
- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · 2.7-13.5mm motorized lens
- · Built-in mic (-A)
- · Max. IR length 60m, smart IR
- · IP67, 12V ±30% DC















### **Multi-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.

### 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  $\pm 30\%$  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.

Technical Specification						Certifications	
Camera Image Sensor		1/2.7 inch CMOS				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)
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Effective Pixels		3840 (H)×2160 (V), 4K				Port	
Electronic Shutter Speed		PAL: 1/3s-1/100000s NTSC: 1/4s-1/100000s				Audio Port	One channel built-in mic (-A)
Minimum Illumi	ination	0.03Lux/F1.7, 30IRE, 0Lux IR on				Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
IR Distance		Distance up to 60m (196.85ft)				Power	
IR On/Off Control		Auto;manual				Power Supply	12V ±30% DC
IR LED Number		4				Power Consumption	Max 11W (12V DC, IR on)
		Pan: 0°–360°				Environment	
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°				Operating Temperature	-30°C to +60°C (-22°F to 140°F);<95% (non- condensation)
Lens						Storage Temperature	-30°C to +60°C (-22°F to 140°F);<95% (non-
Lens Type		Motorized vari-focal					condensation)
Mount Type		ф14				Protection Grade	IP67
						Structure	
Focal Length		2.7mm-13.5mm				Casing	Metal throughout the whole casing
Max. Aperture		F1.7				Dimensions	209.9mm×90.4mm×90.4mm (8.26"×3.56"×3.56")
Angle of View		Horizontal: 105°–33° Vertical: 56°–18° Diagonal: 126°–38°					, and the second
						Net Weight	0.55kg (1.21lb)
Iris Type		Fixed iris				Gross Weight	0.7kg (1.54lb)
Close Focus Distance		0.8m (2.62ft)					
	Lens	Detect	Observe	Recognize	Identify		
DORI Distance	Wide-angle	90m (295ft)	36m (118ft)	18m (59ft)	9m (30ft)		

106m (348ft) 53m (174ft) 26m (85ft)

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

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

TVI: 5M@20fps; 4M@25fps/30fps

960H (960× 576/960×480)

Auto switch by ICR

BLC/HLC/WDR

120dB/WDR

Auto; manual

Auto; manual 2D&3D NR

Yes

4X

Off/On

Off/On (8 area, rectangle)

Telephoto

Video

Resolution

Day/Night

White Balance

Gain Control

Smart IR

Noise Reduction

Electronic Defog

Privacy Masking

Digital Zoom

Mirror

BLC

WDR

Video Frame Rate

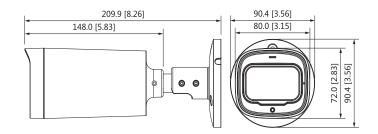
264m (866ft)

## Lite Plus Series | DH-HAC-HFW1801R-Z-IRE6/R-Z-IRE6-A

Ordering Information							
Туре	Part Number	Description					
	DH-HAC- HFW1801RP-Z-IRE6 2.7~13.5mm	4K HDCVI IR Bullet Camera, PAL					
4K Camera	DH-HAC- HFW1801RN-Z- IRE6 2.7~13.5mm	4K HDCVI IR Bullet Camera, NTSC					
4K Camera	DH-HAC- HFW1801RP-Z- IRE6-A 2.7–13.5mm	4K HDCVI IR Bullet Camera, PAL					
	DH-HAC- HFW1801RN-Z- IRE6-A 2.7–13.5mm	4K HDCVI IR Bullet Camera, NTSC					
	PFA135	Wall box (For use alone or with PFA152-E pole mount)					
	PFA152-E	Pole mount (For use with PFA135 junction box)					
	PFA151	Corner mount (For use with PFA135 junction box)					
	PFM820	UTC Controller					
Accessories	PFM800-E	Passive HDCVI Balun					
	PFM800-4K	Passive Video Balun					
	PFM800B-4K	Passive Video Balun					
	PFM320D-015	12V 1.5A Power Adapter					
	PFM300	12V 2A Power Adapter					

# Pole Mount PFA152-E+PFA135 Wall Mount PFA135

### Dimensions (mm/inch)



### Accessories

### **Optional:**



PFA135 Wall box (For use alone or with PFA152-E pole mount)



PFA152-E Pole mount (For use with PFA135 junction box)



Corner mount
(For use with PFA135
junction box)



PFM820 UTC Controller



PFM800-E Passive HDCVI Balun



PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun



PFM320D-015 12V 1.5A Power Adapter



PFM300 12V 2A Power Adapter

