

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

4K HDCVI IR Bullet Camera



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

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.

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 protection against the camera and its structure from the effects of lightning.

Technical Specification

Camera

Image Sensor	1/2.7 inch CMOS
Effective Pixels	3840 (H)×2160 (V), 4K
Electronic Shutter Speed	PAL: 1/3s–1/100000s NTSC: 1/4s–1/100000s
Minimum Illumination	0.03Lux/F1.7, 30IRE, 0Lux IR on
IR Distance	Distance up to 60m (196.85ft)
IR On/Off Control	Auto;manual
IR LED Number	4
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°

Lens

Lens Type	Motorized vari-focal				
Mount Type	φ14				
Focal Length	2.7mm–13.5mm				
Max. Aperture	F1.7				
Angle of View	Horizontal: 105°–33° Vertical: 56°–18° Diagonal: 126°–38°				
Iris Type	Fixed iris				
Auto Focus	Yes				
Close Focus Distance	0.8m (2.62ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	Wide-angle	90m (295ft)	36m (118ft)	18m (59ft)	9m (30ft)
	Telephoto	264m (866ft)	106m (348ft)	53m (174ft)	26m (85ft)

Video

Video Frame Rate	CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps CVBS: PAL/NTSC AHD: 4K@15fps; 5M@20fps; 4M@25fps/30fps TVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps
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
Smart IR	Yes
Electronic Defog	Yes
Digital Zoom	4X
Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)

Certifications

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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Port

Audio Port	One channel built-in mic (-A)
Video Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC port

Power

Power Supply	12V ±30% DC
Power Consumption	Max 11W (12V DC, IR on)

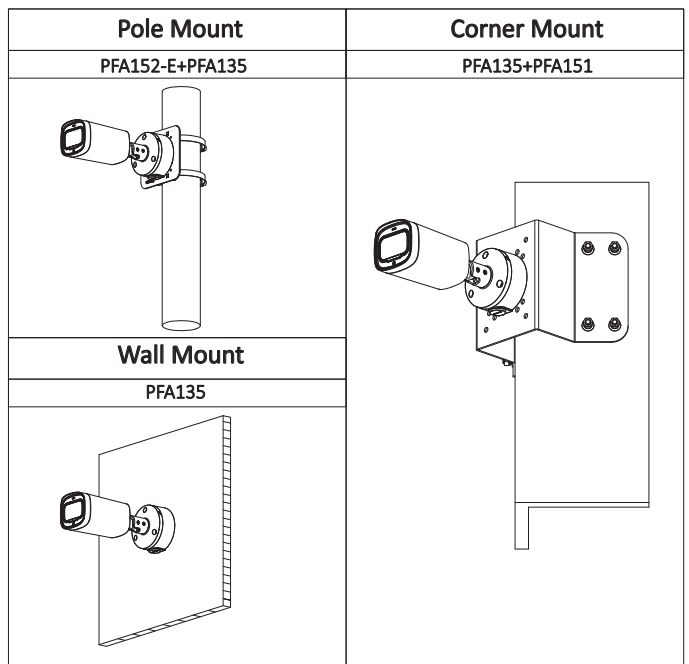
Environment

Operating Temperature	-30°C to +60°C (-22°F to 140°F);<95% (non-condensation)
Storage Temperature	-30°C to +60°C (-22°F to 140°F);<95% (non-condensation)
Protection Grade	IP67

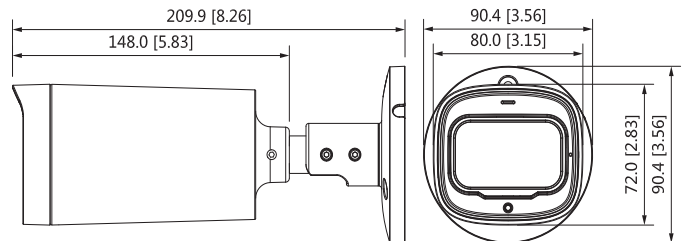
Structure

Casing	Metal throughout the whole casing
Dimensions	209.9mm×90.4mm×90.4mm (8.26"×3.56"×3.56")
Net Weight	0.55kg (1.21lb)
Gross Weight	0.7kg (1.54lb)

Ordering Information		
Type	Part Number	Description
4K Camera	DH-HAC-HFW1801RP-Z-IRE6 2.7~13.5mm	4K HDCVI IR Bullet Camera, PAL
	DH-HAC-HFW1801RN-Z-IRE6 2.7~13.5mm	4K HDCVI IR Bullet Camera, NTSC
	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
Accessories	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)
	PFM800-4K	Passive Video Balun
	PFM800B-4K	Passive Video Balun
	PFM320D-015	12V 1.5A Power Adapter
	PFM300	12V 2A Power Adapter



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)



PFA151
Corner mount
(For use with PFA135 junction box)



PFM800-4K
Passive Video Balun



PFM800B-4K
Passive Video Balun



PFM320D-015
12V 1.5A Power Adapter



PFM300
12V 2A Power Adapter