

DH-HAC-HFW1800R

4K HDCVI IR Bullet Camera



- · Max. 4K resolution
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8mm; 3.6mm; 6mm optional)
- · Max. IR length 20m, 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.

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.*

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

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.

Lite Series | DH-HAC-HFW1800R

160 m

(524.9 ft)

AHD: 4K@15fps;

TVI: 4K@15fps; CVBS: 960H

Auto switch by ICR

BLC/HLC/WDR

Auto; manual

Auto; manual

DWDR

960H (960 × 576/960 × 480)

6 mm

Video

Frame Rate

Resolution

Day/Night

White Balance

Gain Control

BLC

WDR

64 m

(210.0 ft)

CVI: 4K@15fps; 5M@20fps; 4M@25fps/30fps;

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

32 m

(105.0 ft)

16 m

(52.5 ft)

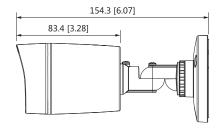
| Technical Specification | | | | | | Noise Reduction | 2D NR |
|-----------------------------|------------|--|----------------------|---------------------|---------------------|-----------------------|---|
| Camera | | | | | | Smart IR | Yes |
| Image Sensor | | 1/2.7 inch CMOS | | | | Mirror | Off/On |
| 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 | 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) |
| S/N Ratio | | >65dB | | | | Port | 0E (0E00550 17CAN) C22.2 NO.00550 1) |
| Minimum Illumination | | 0.03Lux/F2.0, 30IRE, 0Lux IR on | | | | | Video output choices of CVI/TVI/AHD/CVBS by one |
| Fill Light Working Distance | | 20 m (65.2 ft) | | | | Video Output | BNC port |
| IR On/Off Control | | Auto; manual | | | | Power | |
| IR LED Number | | 12 | | | | Power Supply | 12V ±30% DC |
| Pan/Tilt/Rotation Range | | Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360° | | | | Power Consumption | Max 3.56W (12V DC, IR on) |
| | | | | | | Environment | |
| Lens | | | | | | Operating Temperature | -40°C to +55°C (-40°F to +131°F);<95% (noncondensation) |
| Lens Type | | Fixed-focal | | | | Storage Temperature | -40°C to +55°C (-40°F to +131°F);<95% (non- condensation) |
| Mount Type | Mount Type | | | | | Protection Grade | , IP67 |
| Focal Length | | 2.8 mm; 3.6 mm; 6 mm | | | | Structure | |
| Max. Aperture | | F2.0 | | | | Casing | Plastic |
| Angle of View | | $2.8\mathrm{mm}$: 125° x 105° x 56° (diagonal x horizontal x vertical) | | | | Camera Dimensions | 154.3 mm × 69.8 mm × 69.8 mm (6.07" × 2.75" × 2.75") |
| | | vertical) | | iagonal x horizo | | Net Weight | 0.15 Kg (0.33 lb) |
| | | 6 mm: 62.4° x 54.7° x 31.3° (diagonal x horizontal x vertical) | | | | Gross Weight | 0.21 Kg (0.46 lb) |
| Iris Type | | Fixed iris | | | | GIOSS WEIGHT | 0.21 NB (0.40 ID) |
| Close Focus Distance | | 2.8 mm: 1.0 m (3.3 ft) 3.6 mm: 1.8 m (6.2 ft) 6 mm: 3.6 m (11.8 ft) | | | | | |
| | Lens | Detect | Observe | Recognize | Identify | | |
| DORI Distance | 2.8 mm | 74.7 m (245.1 ft) | 29.9 m (98.1 ft) | 14.9 m (48.9ft) | 7.5 m (24.6 ft) | | |
| | 3.6 mm | 106.7 m (350.1 ft) | 42.7 m (140.1 ft) | 21.3 m (69.9 ft) | 10.7 m (35.1 ft) | | |

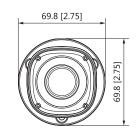
Lite Series | DH-HAC-HFW1800R

| Ordering Information | | | | | | | |
|----------------------|---------------------------|--|--|--|--|--|--|
| Туре | Part Number | Description | | | | | |
| | DH-HAC-HFW1800RP 2.8mm | 4K HDCVI IR Bullet Camera | | | | | |
| | DH-HAC-HFW1800RP 3.6mm | | | | | | |
| 4K Camera | DH-HAC-HFW1800RP 6mm | | | | | | |
| 4K Camera | DH-HAC-HFW1800RN 2.8mm | | | | | | |
| | DH-HAC-HFW1800RN 3.6mm | | | | | | |
| | DH-HAC-HFW1800RN 6mm | | | | | | |
| | PFA134 | Junction Box (not water-proof) | | | | | |
| | PFA134+PFA152-E | Junction Box (not water-proof)+Pole Mount Bracket | | | | | |
| | PFM800-E | Passive HDCVI Balun | | | | | |
| 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 | 12V 1.5A DC Power Adapter | | | | | |

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

Dimensions (mm [inch])





Accessories

Optional:



PFA134 Junction Box (not water-proof)



PFA134+PFA152-E Junction Box (not waterproof)+Pole Mount Bracket



PFM800-E 1 Channel Passive HDCVI Balun







PFM800-4K Passive Video Balun



PFM800B-4K Passive Video Balun





PFM320D-015 12V 1.5A DC Power Adapter

