

DH-HAC-HFW1209C(-A)-LED

2MP Full-color HDCVI Bullet Camera



System Overview

Experience 2MP full HD color video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The full-color starlight HDCVI camera presents a high quality color image with rich details even in total dark conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts one powerful warm white LED illuminators, covering an effective range up to 20 m (65.61 ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring anthentic identificaiton of objects. It is an ideal choice for applications such as schools, retail centers and parking lots.

Functions

Full-color

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera can present 24/7 colored image that provides color details to accurately identify people or objects in low light conditions.

Warm Supplemental lights

With one warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total dark. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

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.

*This function is available for select models.

- · 24/7 color imaging
- · 20 m illumination distance
- · Max. 30 fps@1080p
- · Built-in mic (-A)
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8 mm; 3.6 mm optional)
- · IP67, 12V±30% DC



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.

*Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 700 m for 2MP HD video via coaxial cable, and up to 300 m 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. The four formats can be switched over through OSD menu or by PFM820 (UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

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. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting \pm 30% input voltage tolerance, this camera suits even the mostunstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Lite Series | DH-HAC-HFW1209C(-A)-LED

| Task | | Concell | ication |
|------|-------|---------|---------|
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| 1001 | mean | JACCH | ication |

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|----|---|----|-----|--|

| Camera | | | | | | |
|-------------------------|--------------|--|----------------------|---------------------|---------------------|--|
| Image Sensor | | 1/2.8 inch CMOS | | | | |
| Effective Pixels | ; | 1920 (H) × 1080 (V), 2MP | | | | |
| Scanning Syste | m | Progressive | | | | |
| Electronic Shut | tter Speed | PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s | | | | |
| S/N Ratio | | > 65 dB | | | | |
| Minimum Illum | nination | 0.01 Lux/F1.6, 0 Lux white light on | | | | |
| Illumination Di | stance | Distance up to 20 m (65.61 ft) | | | | |
| Illuminator On, | /Off Control | Auto; manua | I | | | |
| Illuminator Nu | mber | 1 | | | | |
| Pan/Tilt/Rotation Range | | Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360° | | | | |
| Lens | | | | | | |
| Lens Type | | Fixed-focal | | | | |
| Mount Type | | M12 | | | | |
| Focal Length | | 2.8 mm; 3.6 mm | | | | |
| Max. Aperture | | F1.6 | | | | |
| Field of View | | 2.8 mm: 126.2° × 106° × 56.5° (diagonal × horizontal × vertical); 3.6 mm: 103.6° × 86.9° × 46.3° (diagonal × horizontal × vertical) | | | | |
| Iris Type | | Fixed iris | | | | |
| Close Focus Distance | | 2.8 mm: 0.7 m (2.29 ft); 3.6 mm: 1.2 m (3.94 ft) | | | | |
| | Lens | Detect | Observe | Recognize | Identify | |
| DORI Distance | 2.8 mm | 43.9 m (144.02 ft) | 17.5 m (57.41 ft) | 8.8 m (28.87 ft) | 4.4 m (14.43 ft) | |
| | 3.6 mm | 55.2 m (181.1 ft) | 22.1 m (72.5 ft) | 11.0 m (36.1 ft) | 5.5 m (18.0 ft) | |

Certifications CE (EN55032, EN55024, EN50130-4, EN60950-1) Certifications FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) Port Video output choices of CVI/TVI/AHD/CVBS by one Video Output BNC port Audio Interface Built-in Mic (-A) Power 12V ±30% DC Power Supply Power Consumption Max 3.1W (12V DC, white light on) Environment -40°C to +60°C (-40°F to 140°F); <95% (non-Operating Temperature condensation) -40°C to +60°C (-40°F to 140°F); <95% (non-Storage Temperature condensation) Protection Grade IP67 Structure Metal front cover + plastic main body + plastic bracket Casing 161.3 mm × 69.7 mm × 70.0 mm (6.35" × 2.75" × 2.75") Camera Dimensions

0.20 kg (0.44 lb)

0.28 kg (0.62 lb)

2D NR

Off/On

Off/On (8 area, rectangle)

Yes

Noise Reduction Smart Light

Privacy Masking

Net Weight Gross Weight

Mirror

Video

| CVI: PAL: 1080p@30 fps; 720p@30 fps; NTSC: 1080p@30 fps; 720p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps CVBS: PAL: 960H; NTSC: 1080p@30 fps CVBS: PAL: 960H; NTSC: 960HResolution1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)BLCBLC/DWDRWDRDWDRWhite BalanceAuto; manualD. i. | | |
|--|---------------|--|
| Resolution 576/960 × 480) BLC BLC/DWDR WDR DWDR White Balance Auto; manual | Frame Rate | PAL: 1080p@25 fps; 720p@25 fps; NTSC: 1080p@30 fps; 720p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps CVBS: PAL: 960H; |
| WDR DWDR Auto; manual | Resolution | |
| White Balance Auto; manual | BLC | BLC/DWDR |
| | WDR | DWDR |
| | White Balance | Auto; manual |
| Gain Control Auto; manual | Gain Control | Auto; manual |

Lite Series | DH-HAC-HFW1209C(-A)-LED

| Ordering In | nformation | | Junction Mount | Junction Mount | |
|---------------------------|-----------------------------------|---|-----------------------|----------------|--|
| Туре | Part Number | Description | PFA134 | PFA130-E | |
| 2MP Camera Accessories | DH-HAC-HFW1209CP- LED 2.8 mm | | | | |
| | DH-HAC-HFW1209CN- LED 2.8 mm | | | | |
| | DH-HAC-HFW1209CP- LED 3.6 mm | | | | |
| | DH-HAC-HFW1209CN- LED 3.6 mm | 2MP Full-color HDCVI Bullet Camera | | | |
| | DH-HAC-HFW1209CP- A-LED 2.8 mm | | | | |
| | DH-HAC-HFW1209CN- A-LED 2.8 mm | | Pole Mount(Vertical) | | |
| | DH-HAC-HFW1209CP- A-LED 3.6 mm | | PFA130-E+PFA152-E | - | |
| | DH-HAC-HFW1209CN- A-LED 3.6 mm | | ADAD | | |
| | PFA134 | Junction Box | | | |
| | PFA130-E | IP66 Junction Box | | | |
| | PFA152-E | Pole Mount Bracket | | | |
| | PFM321D | 12V 1A Power Adapter | | | |
| | PFM904 | Integrated Mount Tester | | | |
| | PFM820 | UTC controller (Only 1080P and below are available) | |] | |
| | PFM800-E | Passive HDCVI Balun | Dimensions (mm[inch]) | | |

Accessories

Optional:



PFA134 Junction Box



PFM321D 12V 1A Power Adapter

PFM800-E Passive HDCVI Balun



PFA130-E IP66 Junction Box



PFM904 Integrated Mount Tester



Pole Mount Bracket



PFM820 UTC controller (Only 1080P and below are available)







