

DH-HAC-HFW1220D

2MP HDCVI IR Bullet Camera



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (6mm, 8mm optional)
- · Max. IR length 80m, Smart IR
- · IP67, DC12V













System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high costperformance makes the camera an ideal choice for SMB solutions.

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 XVR, 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 800m(1080p)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) via UTP cable.*

*This function is available for select models.

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.

Smart IR

The camera is designed with IR LED 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.

Multi-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.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

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 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-HFW1220D

Video

Frame Rate

Resolution

Day/Night

White Balance

BLC WDR

| Technical Specification | | | | | | Gain Control | Auto; manual |
|-----------------------------|--------|---|----------------------|---------------------|--------------------|-----------------------|--|
| Camera | | | | | | Noise Reduction | 2D NR |
| Image Sensor | | 1/2.7 inch CMOS | | | | Smart IR | Yes |
| Effective Pixels | | 1920(H)×1080(V), 2MP | | | | Electronic Defog | Yes |
| Scanning System | | Progressive | | | | Mirror | Off/On |
| Electronic Shutter Speed | | PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s | | | | Privacy Masking | Off/On (8 area, rectangle) |
| S/N Ratio | | >65dB | | | | Certifications | |
| Minimum Illumination | | 0.02Lux/F1.9, 30IRE, 0Lux IR on | | | | Certifications | CE (EN55032:2015, EN 61000-3-2:2014, EN 61000- 3-3:2013, EN55024:2010+A1:2015, EN 55035:2017, EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) |
| Fill Light Working Distance | | 80 m (262.5 ft) | | | | | |
| IR On/Off Control | | Auto; manual | | | | Port | |
| IR LED Number | | 2 | | | | Video Output | Video output choices of CVI/TVI/AHD/CVBS by one |
| Pan/Tilt/Rotation Range | | Pan: 0°–360° Tilt: 0°–87° | | | | | BNC port |
| | | Rotation: 0°–360° | | | | Power | 1204 2204 DG |
| Lens | | | | | | Power Supply | 12V ±30% DC |
| Lens Type | | Fixed-focal | | | | Power Consumption | Max 4.9W (12V DC, IR on) |
| Mount Type | | M12 | | | | Environment | |
| Focal Length | | 3.6 mm; 6 mm; 8 mm | | | | Operating Temperature | -40°C to +60°C (-40°F to 140°F); <95% (non- condensation) |
| Max. Aperture | | F1.9 | | | | Storage Temperature | -40°C to +60°C (-40°F to 140°F); <95% (noncondensation) |
| Field of View | | 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical) 6 mm: 60° x 56° x 30° (diagonal x horizontal x vertical) 8 mm: 46° x 40° x 22° (diagonal x horizontal x vertical) | | | | Protection Grade | IP67 |
| | | | | | | Structure | |
| | | | | | | Casing | Metal throughout the whole casing |
| Iris Type | | Fixed iris 3.6 mm: 0.8 m (2.6 ft) | | | | Camera Dimensions | 241.8 mm × 90.4 mm × 90.4 mm (9.52" × 3.56" × 3.56") |
| Close Focus Distance | | 6 mm: 2 m (6.6 ft) 8 mm: 3.5 m (11.5 ft) | | | | Net Weight | 0.59 Kg (1.30 lb) |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify | Gross Weight | 0.69 Kg (1.52 lb) |
| | 3.6 mm | 49.7 m (163.1 ft) | 19.9 m (65.3 ft) | 9.9 m (32.5 ft) | 5 m (16.4 ft) | | |
| | 6 mm | 82.8 m (271.7 ft) | 33.1 m (108.6 ft) | 16.6 m (54.5 ft) | 8.3 m (27.2 ft) | | |
| | 6 mm | 110.3 m (361.9 ft) | 44.1 m (144.7 ft) | 22.1 m (72.5 ft) | 11 m (36.1 ft) | | |
| | | | | | | | |

CVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps;

AHD: 1080P@25/30fps; 720P@25/30fps; TVI: 1080P@25/30fps; 720P@25/30fps; 720P@50/60fps; CVBS: 960H

Auto switch by ICR

BLC/HLC/DWDR

DWDR

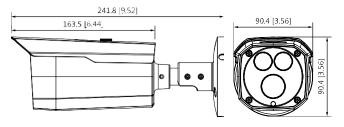
Auto; manual

1080P (1920×1080); 720P (1280×720); 960H (960×576/960×480)

| Ordering Information | | | | | | | |
|----------------------|---------------------------|---|--|--|--|--|--|
| Туре | Part Number | Description | | | | | |
| | DH-HAC-HFW1220DP 3.6mm | 2MP HDCVI IR Bullet Camera | | | | | |
| | DH-HAC-HFW1220DN 3.6mm | | | | | | |
| 2MP Camera | DH-HAC-HFW1220DP 6mm | | | | | | |
| ZIVIF Calliera | DH-HAC-HFW1220DN 6mm | ZIVIF TIDEVI IN Bullet Carriera | | | | | |
| | DH-HAC-HFW1220DP 8mm | | | | | | |
| | DH-HAC-HFW1220DN 8mm | | | | | | |
| | PFA13G | Junction box | | | | | |
| | PFA130-E | IP66 Junction box (For use alone or with PFA152-E pole mount) | | | | | |
| | PFA152-E | Pole Mount Bracket (For use with PFA130-E junction box) | | | | | |
| Accessories | PFM800-E | Passive HDCVI Balun | | | | | |
| | PFM321D | 12V 1A Power Adapter | | | | | |
| | PFM820 | UTC Controller | | | | | |
| | PFM904 | Integrated Mount Tester | | | | | |

| Wall Mount | Pole Mount |
|------------|---------------------|
| PFA130-E | PFB130-E + PFA152-E |
| | |

Dimensions (mm[inch])



Accessories

Optional:



PFA13G Junction box



PFA130-E IP66 Junction box (For use alone or with PFA152-E pole mount)



PFA152-E Pole Mount Bracket (For use with PFA130-E junction box)



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM820 UTC Controller



PFM904 Integrated Mount Tester

Rev 001.001