

DH-HAC-HFW2241TL

2MP Starlight HDCVI IR Bullet Camera



System Overview

Experience 1080P full HD video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The Starlight HDCVI camera with 120dB true WDR presents a high quality image with rich details even in extreme low-light conditions. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its superior image performance and starlight feature makes the camera an ideal choice for mid to large-size businesses and projects where both highly reliable surveillance and construction flexibility are needed.

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 long-distance and real-time transmission without any loss. It supports up to 800m for 1080P Full 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.

Starlight

With the adoption of high performance sensor, the camera is able to provide incomparable performance even under extreme lowlight environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

- · Starlight, 120dB true WDR, 3DNR
- · Max.30fps@1080P
- · HD/SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Max. IR length 40m, Smart IR
- · IP67, DC12V±30%











Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS, and other two common HD analog formats in the market. A DIP switch located on the cable allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only XVRs, but also most existing HD/SD DVRs.

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 tech-nology 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 ±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.

Pro Series | DH-HAC-HFW2241TL

| · | | |
|-----------------------------|--|---------------------|
| Technical Specification | | Electronic De |
| Camera | | Digital Zoom |
| Image Sensor | 1/2.8 inch CMOS | Mirror |
| Effective Pixels | 1920 (H)×1080 (V), 2MP | Privacy Mask |
| Electronic Shutter Speed | PAL: 1/3s-1/100000s NTSC: 1/4s-1/100000s | Certificat |
| Minimum Illumination | 0.004Lux/F2.0, 30IRE, 0Lux IR on | Certification |
| Fill Light Kind | IR | D - mt |
| Fill Light Working Distance | 40 m (131 ft) | Port |
| IR On/Off Control | Auto; manual | Video Outpu |
| IR LED Number | 2 | Power |
| Pan/Tilt/Rotation Range | Pan: 0°–355° Tilt: 0°–180° Rotation: 0°–355° | Power Suppl |
| | Rotation. 0 333 | Environm |
| Lens Type | Fixed-focal | Operating Te |
| Mount Type | M12 | Storage Tem |
| Focal Length | 2.8mm; 3.6mm | |
| Max. Aperture | F2.0 | Protection G |
| Angle of View | 2.8mm: 121° x 102° x 57° (diagonal x horizontal x vertical) 3.6mm: 103.6° x 86.9° x 46.3° (diagonal x horizontal x | Structure Casing |
| Ç | vertical) | Dimensions |

| Focal Length | | 2.8mm; 3.6mm | | | |
|----------------------|-------|--|-------------------|------------------|------------------|
| Max. Aperture | | F2.0 | | | |
| Angle of View | | 2.8mm: 121° x 102° x 57° (diagonal x horizontal x vertical) 3.6mm: 103.6° x 86.9° x 46.3° (diagonal x horizontal vertical) | | | |
| Iris Type | | Fixed iris | | | |
| Close Focus Distance | | 500 mm/900 mm | | | |
| | Lens | Detect | Observe | Recognize | Identify |
| DORI Distance | 2.8mm | 38.6 m (127 ft) | 15.4 m (51 ft) | 7.7 m (25 ft) | 3.9 m (13 ft) |
| | 3.6mm | 55.2 m (181 ft) | 22.1 m (73ft) | 11.0 m (36ft) | 5.5 m (18ft) |

Video

| Frame Rate | CVI: PAL: 1080P@25fps, 720P@25fps, 720P@50fps; NTSC: 1080P@30fps, 720P@30fps, 720P@60fps AHD: PAL: 1080P@25fps, 720P@25fps; NTSC: 1080P@30fps, 720P@30fps TVI: PAL: 1080P@25fps, 720P@25fps, 720P@50fps; NTSC: 1080P@30fps, 720P@30fps, 720P@60fps CVBS PAL: 960 × 576H; NTSC: 960 × 480H |
|-----------------|---|
| Resolution | 1080P (1920×1080); 720P (1280×720); 960H (704× 576/704×480) |
| 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 | 4× |
| 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) |
| Port | |
| Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BNC port |
| Power | |
| Power Supply | 12V ±30% DC |
| Power Consumption | Max 4.1W (12V DC, IR on) |
| Environment | |
| Operating Temperature | -40°C to +60°C (-40°F to +140°F); <95% (non-condensation) |
| Storage Temperature | -40°C to +60°C (-40°F to +140°F); <95% (non-condensation) |
| Protection Grade | IP67 |
| Structure | |
| Casing | Metal front face + plastic main body + plastic bracket |
| Dimensions | 198.9 mm × 80.2 mm × 76.2 mm (7.83" × 3.16" × 3.00") |
| | |

0.29kg (0.64lb) 0.44kg (0.97lb)

Net Weight

Gross Weight

Pro Series | DH-HAC-HFW2241TL

| Ordering Information | | | | |
|----------------------|-----------------------------|--|--|--|
| Туре | Part Number | Description | | |
| 2MP Camera | DH-HAC-HFW2241TLP- 0280B | 2MP Starlight HDCVI IR Bullet Camera, PAL | | |
| | DH-HAC-HFW2241TLP- 0360B | | | |
| | DH-HAC-HFW2241TLN- 0280B | 2MP Starlight HDCVI IR Bullet Camera, NTSC | | |
| | DH-HAC-HFW2241TLN- 0360B | | | |
| | PFA134 | Water-proof Junction Box | | |
| | PFA12A | Plastic Junction Box | | |
| | PFA134+PFA152-E | Pole Mount | | |
| Accessories | PFM820 | UTC | | |
| | PFM800-4K | 1-CH Passive Video Balun | | |
| | PFM900-E | Integrated Mount Tester | | |
| | PFM321D | DC12V1A Power Adapter | | |
| | PFM300 | DC12V2A Power Adapter | | |

| Wall Mount | Pole Mount | |
|------------|-----------------|--|
| PFA134 | PFA134+PFA152-E | |
| Wall Mount | | |
| PFA12A | | |
| | | |

Accessories

Optional:



PFA134 Water-proof Junction Box



PFA12A



Plastic Junction Box



PFA134+PFA152-E Pole Mount

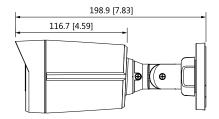


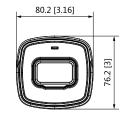
PFM800-4K 1-CH Passive Video Balun



PFM900-E Integrated Mount Tester

Dimensions (mm[inch])







PFM820

UTC

PFM321D DC12V1A Power Adapter



PFM300 DC12V2A Power Adapter

