

DH-HAC-HFW1231TM-I8-A

2MP Starlight HDCVI IR Bullet Camera



- · Max 30 fps@1080p
- · Starlight, 130 dB true WDR, 3D NR
- · 3.6 mm fixed lens (2.8 mm, 6 mm, 8 mm optional)
- · CVI/CVBS/AHD/TVI switchable
- · Super Adapt
- · Built-in mic
- · Max. IR length 80 m, Smart IR
- · IP67, DC 12 V















System Overview

Lite Series is suitable for users who requires high quality monitoring products at a reasonable price. It is cost effective and offers high performance, which makes it an ideal choice for residential and small-medium business applications. This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

Starlight

With the adoption of large sized high performance sensor and large aperture lens, 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.

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.

Wide Dynamic Range

With advanced Wide Dynamic Range (WDR) technology, Dahua HDCVI camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Super Adapt

Embedded with intelligent algorithm, for changing external environment, camera can automatically adjust parameters to present the optimal image, and it solves the trouble of configuration.

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.

Smart Illumination

The camera is designed with 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.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Lite Series | DH-HAC-HFW1231TM-I8-A

| Technical Specification | | | | | Resolution | 1080p (1920 × 1080); 960H (960 × 576/960 × 480) | |
|----------------------------|--------|--|----------------------|---------------------|--------------------|---|--|
| Camera | | | | | | Day/Night | Auto switch by ICR |
| Image Sensor | | 1/2.8" CMOS | | | | BLC | BLC/WDR/HLC |
| Max. Resolution | | 1920 (H) × 1080 (V) | | | | WDR | 130 dB |
| Pixel | | 2MP | | | | White Balance | Auto; Area WB |
| Scanning System | | Progressive | | | | Gain Control | Auto; manual |
| Electronic Shutter Speed | | PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s | | | | Noise Reduction | 3D NR |
| S/N Ratio | | > 65 dB | | | | Smart IR | Yes |
| Min. Illumination | | 0.002 Lux/F1.6, 30 IRE, 0 Lux IR on | | | | Mirror | Off/On |
| Illumination Distance | | 80 m (262.5 ft) | | | | Privacy Masking | Off/On (8 area, rectangle) |
| Illuminator On/Off Control | | Auto; manual | | | | Certifications | |
| Illuminator Number | | 2 (IR light) Pan: 0°–360° | | | | 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) |
| Pan/Tilt/Rotation Range | | Tilt: 0°–90° | | | | Port | · · · · · · · · · · · · · · · · · · · |
| Lens | | Rotation: 0°–360° | | | | Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BNC port |
| Lens Type | | Fixed lens | | | | Audio Input | One channel built-in mic |
| Mount Type | | M12 | | | | Power | |
| Focal Length | | 2.8 mm; 3.6 r | mm; 6 mm; 8 n | nm | | Power Supply | 12 V ±30% DC |
| Max. Aperture | | F1.6 | | | | Power Consumption | Max 5.1 W (12 V DC, IR on) |
| Field of View | | 2.8 mm: H: 107°; V: 56°; D: 127° 3.6 mm: H: 86°; V: 46°; D: 101° | | | | Environment | |
| | | 6 mm: H: 54°; V: 29°; D: 63° 8 mm: H: 41°; V: 23°; D: 47° | | | | Operating Temperature | $-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to 140 $^{\circ}\text{F}$); < 95% (non-condensation) |
| Iris Type | | Fixed iris | | | | Storage Temperature | -40 °C to $+60$ °C (-40 °F to 140 °F); < 95% (non-condensation) |
| Close Focus Distance | | 2.8 mm: 0.7 m (2.3 ft) 3.6 mm: 1.1 m (3.6 ft) 6 mm: 2.5 m (8.2 ft) 8 mm: 4 m (13.1 ft) | | | | Structure | |
| | | | | | | Casing | Mental throughout the whole casing |
| | Lens | Detect | Observe | Recognize | Identify | Camera Dimensions | 240.7 mm × 90.7 mm × 90.4 mm (9.48" × 3.57" × 3.56 |
| DORI Distance | 2.8 mm | 43.9 m | 17.5 m | 8.8 m | 4.4 m | Net Weight | 0.65 Kg (1.43 lb) |
| | | (144 ft) 53.7 m | (57.4 ft) 21.5 m | (28.9 ft) 10.7 m | (14.4 ft) 5.4 m | Gross Weight | 0.87 Kg (1.92 lb) |
| | 3.6 mm | (176.2 ft) | (70.5 ft) | (35.1 ft) | (17.7 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) | | |
| | 8 mm | 110.3 m (361.9 ft) | 44.1 m (144.7 ft) | 22.1 m (72.5 ft) | 11 m (36.1 ft) | | |
| Video | | | | | | | |
| | | CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: | | | | | |

PAL: 1080p@25 fps; NTSC: 1080p@30 fps;

PAL: 1080p@25 fps; NTSC: 1080p@30 fps;

TVI:

CVBS: PAL: 960 × 576H; NTSC: 960 × 480H

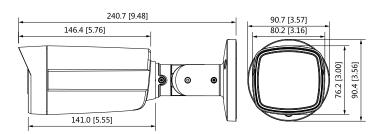
Frame Rate

Lite Series | DH-HAC-HFW1231TM-I8-A

| Ordering Information | | | | | | | |
|------------------------|----------------------------|---|--|--|--|--|--|
| Туре | Model | Description | | | | | |
| 2M Camera | DH-HAC-HFW1231TMP- I8-A | 2MP Starlight HDCVI IR Bullet Camera, PAL | | | | | |
| | DH-HAC-HFW1231TMN- I8-A | 2MP Starlight HDCVI IR Bullet Camera, NTSC | | | | | |
| | PFA13G | Junction box | | | | | |
| | PFA130-E | IP66 Junction box | | | | | |
| | PFA152-E | Pole Mount Bracket (For use with PFA130-E junction box) | | | | | |
| Accessories (Optional) | PFM800-E | Passive HDCVI Balun | | | | | |
| | PFM321 | 12 V 1A Power Adapter | | | | | |
| | PFM820 | UTC Controller | | | | | |
| | PFM904 | Integrated Mount Tester | | | | | |

| Celling Mount | Junction Mount | Pole Mount(Vertical) |
|---------------|----------------|----------------------|
| | | |

Dimensions (mm[inch])



Accessories

Optional:



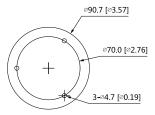
PFA13G Junction box



PFA130-E IP66 Junction box



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





PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM820 UTC Controller



PFM904 Integrated Mount Tester