

DH-HAC-HDW1500TMQ-A-POC

5MP Starlight HDCVI POC IR Quick-to-install Eyeball Camera



* The parameters and datasheets below can only be applied to 1500-S2 series.

- Max 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- Quick-to-install eyeball saves installation time
- 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- Built-in mic
- Max. IR length 60 m, Smart IR
- IP67, PoC (only CVI)/12V±30% DC



System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP 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 cost-performance make the camera an ideal choice for SMB solutions. Besides, this model is a PoC camera which can be powered by PoC XVR over a single coaxial cable with video, requiring no separate power supplies. PoC reduces time and cost for users, making it an ideal choice for applications with complex deployment but a tight budget.

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.

Easy Installation

HDCVI Quick-to-install eyeball adopts quick-to-install pedestal, which can achieve easier installation than conventional eyeball. Quick-to-install camera reduces time and labor costs.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m for 5MP HD video through coaxial cable, and up to 300 m through 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.

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 comes 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. This feature makes the camera compatible with most end users' existing HD/SD DVRs.

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.

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.

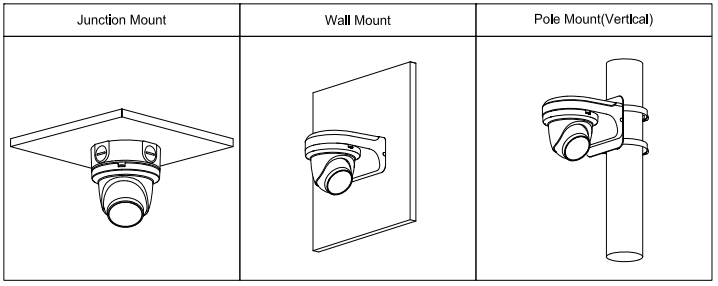
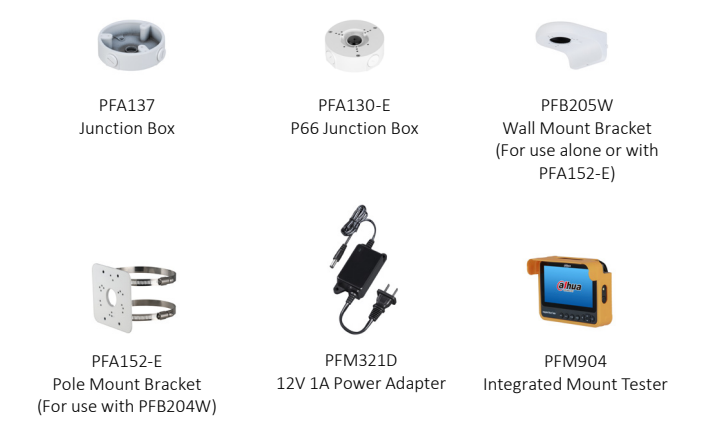
Supporting ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4kV lightning rating provides protection against the camera and its structure from the effects of lightning.

| Technical Specification | | | | | |
|----------------------------|---|-------------------|------------------|------------------|-----------------|
| Camera | | | | | |
| Image Sensor | 1/2.7 inch CMOS | | | | |
| Max. Resolution | 2880 (H) × 1620 (V) | | | | |
| Pixel | 5MP | | | | |
| Scanning System | Progressive | | | | |
| Electronic Shutter Speed | PAL: 1/25 s–1/100,000 s NTSC: 1/30 s–1/100,000 s | | | | |
| S/N Ratio | > 65 dB | | | | |
| Min. Illumination | 0.005 Lux/F1.6, 30IRE, 0 Lux IR on | | | | |
| Illumination Distance | 60 m (196.9 ft) | | | | |
| Illuminator On/Off Control | Auto; manual | | | | |
| Illuminator Number | 2 | | | | |
| Pan/Tilt/Rotation Range | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° | | | | |
| Lens | | | | | |
| Lens Type | Fixed-focal | | | | |
| Mount Type | M12 | | | | |
| Focal Length | 2.8 mm; 3.6 mm; 6 mm | | | | |
| Max. Aperture | F1.6 | | | | |
| Field of View | 2.8 mm: 132° × 111° × 58° (diagonal × horizontal × vertical) 3.6 mm: 109° × 92° × 48° (diagonal × horizontal × vertical) 6 mm: 65° × 57° × 30° (diagonal × horizontal × vertical) | | | | |
| Iris Type | Fixed iris | | | | |
| Close Focus Distance | 2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft) 6 mm: 3.1 m (10.2 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | 2.8 mm | 63.6 m (208.7 ft) | 25.4 m (83.3 ft) | 12.7 m (41.7 ft) | 6.4 m (21.0 ft) |
| | 3.6 mm | 80 m (262.5 ft) | 32 m (105.0 ft) | 16 m (52.5 ft) | 8 m (26.2 ft) |
| | 6 mm | 120 m (393.7 ft) | 48 m (157.5 ft) | 24m (78.7 ft) | 12m (39.4 ft) |
| Video | | | | | |
| Frame Rate | CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H | | | | |
| Resolution | 5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960 H (960 × 576/960 × 480) | | | | |
| Day/Night | Auto switch by ICR | | | | |
| BLC | BLC/HLC/DWDR | | | | |
| WDR | DWDR | | | | |
| White Balance | Auto; manual | | | | |
| Gain Control | Auto; manual | | | | |
| Noise Reduction | 2D NR | | | | |
| Smart IR | Yes | | | | |
| Mirror | Off/On | | | | |
| Privacy Masking | Off/On (8 areas, rectangle) | | | | |
| Certifications | | | | | |
| 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, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1) | | | | |
| Port | | | | | |
| Audio Interface | One channel built-in mic | | | | |
| Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BNC port | | | | |
| Power | | | | | |
| Power Supply | PoC (only CVI)/12V±30% DC | | | | |
| Power Consumption | Max 5.2W (12V DC, IR on) PoC (AF) | | | | |
| 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 dome+metal cover+plastic decorative ring | | | | |
| Camera Dimensions | φ121.9 mm × 99.1 mm (φ4.8" × 3.9") | | | | |
| Net Weight | 0.4 kg (0.88 lb) | | | | |
| Gross Weight | 0.6 kg (1.32 lb) | | | | |

Ordering Information | **Accessories**

| Type | Part Number | Description |
|-------------|------------------------------------|--|
| 5MP Camera | DH-HAC-HDW1500TMQP-A-POC 2.8 mm | 5MP Starlight HDCVI POC IR Quick-to-install Eyeball Camera |
| | DH-HAC-HDW1500TMQN-A-POC 2.8 mm | |
| | DH-HAC-HDW1500TMQP-A-POC 3.6 mm | |
| | DH-HAC-HDW1500TMQN-A-POC 3.6 mm | |
| | DH-HAC-HDW1500TMQP-A-POC 6 mm | |
| | DH-HAC-HDW1500TMQN-A-POC 6 mm | |
| Accessories | PFA137 | Junction Box |
| | PFA130-E | P66 Junction Box |
| | PFB205W | Wall Mount Bracket (For use alone or with PFA152-E) |
| | PFA152-E | Pole Mount Bracket (For use with PFB205W) |
| | PFM321D | 12V 1A Power Adapter |
| | PFM904 | Integrated Mount Tester |

Optional:



Dimensions (mm[inch])

