

DH-HAC-HDW1220TL-A

2MP HDCVI IR EyeballCamera



- · Max 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm optional)
- · Built-in mic
- · Max. IR length 30m, Smart IR
- · IP67, DC12V













System Overview

Experience 1080 Pfull HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 1080 PHDCVI 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 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 menuor 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-HDW1220TL-A

Video

Frame Rate

Resolution

Day/Night

White Balance

Gain Control

Noise Reduction

BLC

WDR

| Technical Specification | | | | | | Smart IR | Yes |
|-----------------------------|--------|---|---------------------|--------------------|--------------------|-----------------------|--|
| Camera | | | | | Electronic Defog | Yes | |
| Image Sensor | | 1/2.7 inch CMOS | | | | Mirror | Off/On |
| Effective Pixels | | 1920(H)×1080(V), 2MP | | | | Privacy Masking | Off/On (8 area, rectangle) |
| Scanning System | | Progressive | | | | Certifications | |
| Electronic Shutter Speed | | PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s | | | | | CE (EN55032:2015, EN 61000-3-2:2014, EN 6 3-3:2013, EN55024:2010+A1:2015, EN 55035:20 |
| S/N Ratio | | >65dB | | | | Certifications | EN50130-4:2011+A1:2014) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2 UL (UL60950-1+CAN/CSA C22.2 No.60950-1) |
| Minimum Illumination | | 0.02Lux/F1.9, 30IRE, 0Lux IR on | | | | Port | OL (OLOUSSO-17-CAN/CSA G22.2 NO.00530-1) |
| Fill Light Working Distance | | 30 m (98.4 ft) | | | | | One channel built in mig (A) |
| IR On/Off Control | | Auto; manual | | | | Audio Output | One channel built-in mic (-A) |
| IR LED Number | | 1 | | | | Video Output | VideooutputchoicesofCVI/TVI/AHD/CVBSb BNC port |
| Pan/Tilt/Rotation Range | | Pan: 0°–360° | | | | Power | |
| | | Tilt: 0°–78° Rotation: 0°–360° | | | | Power Supply | 12V ±30% DC |
| Lens | | | | | | Power Consumption | Max 3.3W (12V DC, IR on) |
| Lens Type | | Fixed-focal | | | | Environment | |
| Mount Type | | M12 | | | | Operating Temperature | -40°C to +60°C (-40°F to 140°F); <95% (non condensation) |
| Focal Length | | 2.8 mm; 3.6 mm F1.9 | | | | Storage Temperature | -40°C to +60°C (-40°F to 140°F); <95% (noncondensation) |
| Max. Aperture | | 11.5 | | | | Protection Grade | IP67 |
| Field of View | | 2.8 mm: 119° x 101° x 54° (diagonal x horizontal x vertical) 3.6 mm: 100° x 84° x 45° (diagonal x horizontal x vertical) | | | | Structure | |
| | | | | | | Casing | Metal upper dome+plastic lower dome+plastic co |
| leia Tuna | | Fixed iris | | | | Camera Dimensions | φ97.0 mm × 85.8 mm (φ3.82" × 3.38") |
| Iris Type | | | | | | Net Weight | 0.22 Kg (0.49 lb) |
| Close Focus Distance | | 2.8mm: 0.5m (1.7ft) 3.6mm: 0.8m (2.6ft) | | | | Gross Weight | 0.28 Kg (0.62 lb) |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify | | |
| | 2.8 mm | 38.6 m (126.6 ft) | 15.4 m (50.5 ft) | 7.7 m (25.3 ft) | 3.9 m (12.8 ft) | | |
| | 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) | | |

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

1080P (1920×1080); 720P (1280×720); 960H (960×

720P@50/60fps; CVBS: 960H

576/960×480)

Auto switch by ICR

BLC/HLC/DWDR

Auto; manual

Auto; manual 2D NR

DWDR

Lite Series |DH-HAC-HDW1220TL-A

| Ordering Information | | | | | | | | | |
|----------------------|----------------------------------|---|--|--|--|--|--|--|--|
| Туре | Part Number | Description | | | | | | | |
| | DH-HAC- HDW1220TLP-A 2.8mm | | | | | | | | |
| 2MP Camera | DH-HAC- HDW1220TLN-A 2.8mm | 2MP HDCVI IR Eyeball Camera | | | | | | | |
| Zivir Gainera | DH-HAC- HDW1220TLP-A 3.6mm | | | | | | | | |
| | DH-HAC- HDW1220TLN-A 3.6mm | | | | | | | | |
| | PFA13G | Junction Box | | | | | | | |
| | PFB205W | Wall Mount Bracket (For use alone or with PFA152-E) | | | | | | | |
| | PFA152-E | Pole Mount Bracket (For use with PFB 205W) | | | | | | | |
| | PFA12A | Plastic Junction Box | | | | | | | |
| Accessories | PFA106 | Mount Adapter (For use with PFB220C) | | | | | | | |
| | PFB220C | Ceiling Mount Bracket (For use with PFA106) | | | | | | | |
| | PFM800-E | Passive HDCVI Balun | | | | | | | |
| | PFM321D | 12V 1A Power Adapter | | | | | | | |
| | PFM820 | UTC Controller | | | | | | | |
| | PFM904 | Integrated Mount Tester | | | | | | | |

| Ceiling Mount | Wall Mount 1 | Wall Mount 2 | |
|------------------|----------------|--------------|--|
| PFA13G | PFB205W | PFA12A | |
| | | | |
| Pole Mount | Hanging Mount | | |
| PFB205W+PFA152-E | PFA106+PFB220C | | |
| 6 | | | |

Dimensions (mm[inch]) ©97 [©3.82] 10 0 24.5 [©0.18]

Accessories

Optional:



PFA13G Junction Box



PFA12A Plastic Junction Box



PFB205W Wall Mount Bracket (For use alone or with PFA152-E)



PFA106 Mount Adapter (For use with PFB220C)



PFM321D 12V1APowerAdapter



PFA152-E Pole Mount Bracket (For use with PFB204W)



PFB220C Ceiling Mount Bracket (For use with PFA106)



PFM820 UTC Controller



PFM800-E

Passive HDCVI Balun

Integrated Mount Tester

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