

DH-HAC-T2A21P-U-A

2MP IR HDCVI Fixed-focal Eyeball Camera



Series Overview

The Cooper Series offers simple and highly cost-effective HDCVI solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving cost on both material and labor force. It is also designed and built to the specific standards of Dahua.

Functions

Smart IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

- · Max. 30 fps@1080p.
- · Smart IR Illumination.
- · 30 m illumination distance.
- · Built-in Mic.
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.















Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

Cooper Series | DH-HAC-T2A21P-U-A

project design tool.

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

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

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

1080p (1920 × 1080); 960H (960 × 576/960 × 480)

PAL: 960H NTSC: 960H

AHD:

Video

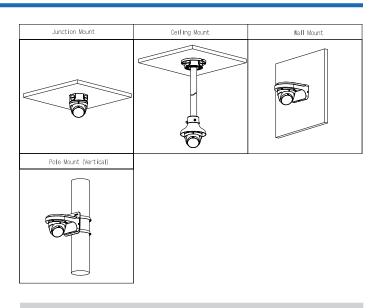
Video Frame Rate

Resolution

| Technical Specification | | | | | | Day/Night | Auto(ICR)/Color/B/W |
|----------------------------|---|---|----------------------|----------------------|---------------------|---------------------------------|--|
| Camera | | | | | | BLC | BLC; DWDR |
| Image Senso | or | 2 MP CMOS | | | | WDR | DWDR |
| Max. Resolution | | 1920 (H) × 1080 (V) | | | | White Balance | Auto |
| Scanning Sy | stem | Progressive | | | | Gain Control | Auto |
| Electronic Shutter Speed | | PAL: 1/25 s-1/100000 s; NTSC: 1/30 s-1/100000 s | | | | Noise Reduction | 2D NR |
| Min. Illumination | | 0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on) | | | | Illumination Mode Certification | Smart IR |
| S/N Ratio | | >65 dB | | | | Certifications | CE-LVD: EN 62368-1; |
| Illumination Distance | | 30 m (98.43 ft) | | | | Port | CE-EMC: EN 55032; EN 55035 |
| Illuminator On/Off Control | | Auto;Manual | | | | Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BN |
| Illuminator Number | | 2 (IR light) | | | | Audio Input | one channel built-in Mic |
| Angle Adjustment | | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° | | | | Audio Input Power | One channel built-in Milc |
| Lens | | | | | | Power Supply | 12 VDC ± 30% |
| Lens Type | | Fixed-focal | | | | Power Consumption | Max 2.8 W (12 VDC, IR on) |
| Lens Mount | | M12 | | | | Environment | |
| Focal Length | | 2.8 mm; 3.6 mm; 6 mm | | | | Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Max. Aperture | | F2.0 | | | | Operating Humidity | <95% (RH), non-condensing |
| | | 2.8 mm: H: 100°; V: 54°; D: 117° | | | | Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Field of View | | 3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50° | | | | Storage Humidity | <95% (RH), non-condensing |
| Iris Control | | Fixed | | | | Protection | IP67 |
| Close Focus Distance | | 2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.4 m (7.87 ft) | | | | Anti-corrosion Level | Basic Protection |
| | | | | | | Structure | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify | Casing Material | Metal |
| | 2.8 mm | 44.7 m (146.65 ft) | 17.9 m (58.73 ft) | 8.9 m (29.20 ft) | 4.5 m (14.76 ft) | Product Dimensions | Φ94.0 mm × 77.9 mm (Φ3.70" × 3.07") |
| | 3.6 mm | 55.0 m (180.45 ft) | 22.0 m (72.18 ft) | 11.0 m (36.09 ft) | 5.5 m (18.04 ft) | Net Weight | 0.27 kg (0.60 lb) |
| | 6 mm | 102.9 m | 41.1 m | 20.6 m | 10.3 m | Gross Weight | 0.33 kg (0.73 lb) |
| | *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ | | | | | Installation | Wall mount; ceiling mount; vertical pole mount |

Cooper Series | DH-HAC-T2A21P-U-A

| Ordering Information | | | | | | |
|----------------------|-------------------|--|--|--|--|--|
| Туре | Model | Description | | | | |
| 2MP | DH-HAC-T2A21P-U-A | 2MP IR HDCVI Fixed-focal Eyeball Camera, PAL | | | | |
| Camera | DH-HAC-T2A21N-U-A | 2MP IR HDCVI Fixed-focal Eyeball Camera, NTSC | | | | |
| | PFA13A-E | Junction Box | | | | |
| | PFB205W-E | Wall Mount Bracket | | | | |
| | PFA152-E | Pole Mount Bracket | | | | |
| Accessories | PFA106 | Adapter Plate of Mini Dome & Eyeball Camera | | | | |
| (Optional) | PFB220C | Ceiling Mount Bracket | | | | |
| | PFM800-E | Passive HDCVI Balun | | | | |
| | PFM321D | 12V 1A Power Adapter | | | | |
| | PFM904 | Integrated Mount Tester | | | | |



Dimensions (mm[inch])

Accessories

Optional:



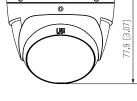
PFA13A-E Junction Box

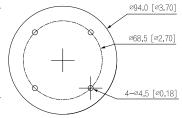


PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket







PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFB220C Ceiling Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester