

DH-HAC-B1A21-U-IL-A

2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



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













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 Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

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-B1A21-U-IL

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| Technical Specification | | | | | | | WDR | DWDR |
| Camera | | | | | | | White Balance | Auto;Area white balance |
| Image Sensor | | 2 MP CMOS | | | | | Gain Control | Auto;Manual |
| Max. Resolution | | 1920 (H) × 1080 (V) | | | | | Noise Reduction | 2D NR |
| Scanning System | | Progressive | | | | | Illumination Mode | Smart IR&WL WL Mode; IR Mode |
| Electronic Shutter Speed | | PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s | | | | | Mirror | Yes |
| Min. Illumination | | 0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); | | | | | Privacy Masking | Off/On (8 areas, rectangle) |
| | | 0 lux (Illuminator on) | | | | | Certification | |
| S/N Ratio | | >65 dB | | | | | Certifications | CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035 |
| Illumination Distance | | IR: 30 m (98.43 ft); Warm light: 20 m (65.62 ft) | | | | | Port | |
| Illuminator On/Off Control | | Auto;Manual | | | | | Video Output | Video output choices of CVI/TVI/AHD/CVBS by one BNC port |
| Illuminator Number | | 2 (Warm light);2 (IR light) | | | | | Power | |
| Angle Adjustment | | Pan: 0°–360° Tilt: 0°–90° | | | | | Power Supply | 12 VDC ± 30% |
| | | Rotation: 0°–360° | | | | | Power Consumption | Max 3.3 W (12 VDC, LED on) |
| Lens | | | | | | | Environment | |
| Lens Type | | Fixed-focal | | | | | Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Lens Mount | | M12 | | | | | Operating Humidity | <95% (RH), non-condensing |
| Focal Length | | 2.8 mm; 3.6 mm; 6 mm | | | | | Storage Temperature | -40 °C to +60 °C (-40 °F to +140 °F) |
| Max. Aperture | | F2.0 | | | | | Storage Humidity | <95% (RH), non-condensing |
| Field of View | | 2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50° | | | | | Protection | IP67 |
| Iris Control | | Fixed | | | | | Anti-corrosion Level | Basic Protection |
| 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) | | | | | Structure | |
| | | | | | | | Casing Material | Plastic |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify | | Product Dimensions | 146.1 mm × 70.0 mm × 69.8 mm (5.75" × 2.76" × 2.75") |
| | 2.8 mm | 44.7 m | 17.9 m | 8.9 m | 4.5 m | | Net Weight | 0.15 kg (0.33 lb) |
| | 2.6 *** | (146.65 ft) 55.0 m | (58.73 ft) 22.0 m | (29.20 ft) 11.0 m | (14.76 ft) 5.5 m | (14.76 ft) 5.5 m | Gross Weight | 0.20 kg (0.44 lb) |
| | 3.6 mm | (180.45 ft) | (72.18 ft) | (36.09 ft) | (18.04 ft) | | Installation | Wall mount; ceiling mount; vertical pole mount |
| | 6 mm | 102.9 m (337.60 ft) | 41.1 m (134.84 ft) | 20.6 m (67.59 ft) | 10.3 m (33.79 ft) | | | |

| Video Frame Rate | CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H | | | |
|------------------|--|--|--|--|
| Resolution | 1080p (1920 × 1080); 960H (960 × 576/960 × 480) | | | |
| Day/Night | Auto(ICR)/Color/B/W | | | |
| BLC | BLC; HLC; DWDR | | | |