

DH-HAC-B2A51-U-IL-A

5MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



- * The parameters and datasheets below can only be applied to A51-U-IL-S2 series.
 * In order to use the SMP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.202323 or later version.
- · Max 25 fps@5MP (16:9 video output).
- · Smart Dual Light.
- \cdot 30 m illumination distance.
- · Built-in Mic.
- · 3.6 mm fixed lens (2.8 mm; 6mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.



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.

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.

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 ±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.

Multiple Formats

The camera supports videos in HDCVI, CVBS, TVI and AHD formats. The DIP switch on the cable allows you to quickly change formats through simple installation and debugging procedures. This feature makes the camera compatible with both XVRs and HD/SD XVRs.

* The DIP Switch is available for select HDCVI camera models.

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Technical Specification 5M (2880 × 1620); 4M (2560 × 1440); Resolution 1080p (1920 × 1080); Camera 960H (960 × 576/960 × 480) 5 MP CMOS Image Sensor Day/Night Auto(ICR)/Color/B/W Max. Resolution 2880 (H) × 1620 (V) BLC BLC; HLC; DWDR; Scanning System Progressive WDR DWDR PAL: 1/25 s-1/100,000 s; Electronic Shutter Speed NTSC: 1/30 s-1/100,000 s White Balance Auto;Area white balance 0.02 lux@F2.0 (Color, 30 IRE) Gain Control Auto 0.002 lux@F2.0 (B/W, 30 IRE) Min. Illumination 0 lux (Illuminator on) 2D NR Noise Reduction S/N Ratio >65 dB Illumination Mode Smart IR&WL; WL Mode; IR Mode IR: 30 m (98.43 ft); Illumination Distance Mirror Warm Light: 20 m (65.62 ft) Yes Illuminator On/Off Control Auto;Manual Privacy Masking Off/On (8 areas, rectangle) Illuminator Number 2 (Warm light);2 (IR light) Certification Pan: 0°-360° CE-LVD: EN 62368-1; Certifications Tilt: 0°–90° Angle Adjustment CE-EMC: EN 55032; EN 55035 Rotation: 0°-360° Port Lens Video output choices of CVI/TVI/AHD/CVBS by one BNC Video Output Fixed-focal Lens Type port Audio Input One channel built-in Mic Auto Focus No Power Lens Mount M12 12 VDC + 30% Power Supply Focal Length 2.8 mm; 3.6 mm; 6 mm **Power Consumption** Max 4.0 W (12V DC, WLED on) Max. Aperture F2.0 2.8 mm: H: 106°; V: 56°; D: 125° Environment Field of View 3.6 mm: H: 92°; V: 48°; D: 109° -40 °C to +60 °C (-40 °F to +140 °F) 6 mm: H: 54°; V: 29°; D: 62° **Operating Temperature** Iris Control Fixed **Operating Humidity** <95% (RH), non-condensing 2.8 mm: 1.0 m (3.28 ft) -40 °C to +60 °C (-40 °F to +140 °F) Storage Temperature **Close Focus Distance** 3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.8 m (9.19 ft) Storage Humidity <95% (RH), non-condensing Observe Lens Detect Recognize Identify IP67 Protection 66.0 m 26.4 m 13.2 m 6.6 m 2.8 mm Basic Protection Anti-corrosion Level (216.54 ft) (86.61 ft) (43.31 ft) (21.65 ft) 76.0 m 30.4 m 15.2 m 7.6 m Structure 3.6 mm (249.34 ft) (99.74 ft) (49.87 ft) (24.93 ft) DORI 120.0 m 48.0 m 24.0 m 12.0 m **Casing Material** Metal Distance 6 mm (393.70 ft) (78.74 ft) (157.48 ft) (39.37 ft) **Product Dimensions** 150.0 mm × 70.0 mm × 69.7 mm (5.91" × 2.76" × 2.74") *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to 0.31 kg (0.68 lb) Net Weight

(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/ project design tool.

Video

Video

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 TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps	
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Gross Weight

Installation

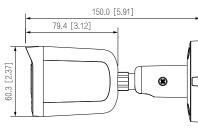
0.38 kg (0.84 lb)

Wall mount; ceiling mount; vertical pole mount

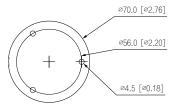
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Ordering Information			
Туре	Model	Description	
5MP Camera	DH-HAC-B2A51P-U-IL-A	5MP Smart Dual Light HDCVI Fixed- focal Bullet Camera, PAL	
	DH-HAC-B2A51N-U-IL-A	5MP Smart Dual Light HDCVI Fixed- focal Bullet Camera, NTSC	
Accessories (Optional)	PFA134	Junction Box	
	PFA130-E	Water-proof Junction Box	
	PFA152-E	Pole Mount Bracket	
	PFM800-4K	1-CH Passive Video Balun	
	PFM321D	12V 1A Power Adapter	
	PFM904	Integrated Mount Tester	

Dimensions (mm[inch])







Accessories

Optional:





Water



Junction Box

PFM800-4K 1-CH Passive Video Balun



PFA130-E Water-proof Junction Box



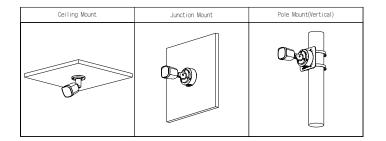
PFM321D 12V 1A Power Adapter







PFM904 Integrated Mount Tester



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