

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 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

- Max 25 fps@5MP (16:9 video output).
- Smart Dual Light.
- 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 $\pm 30\%$ 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.

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.

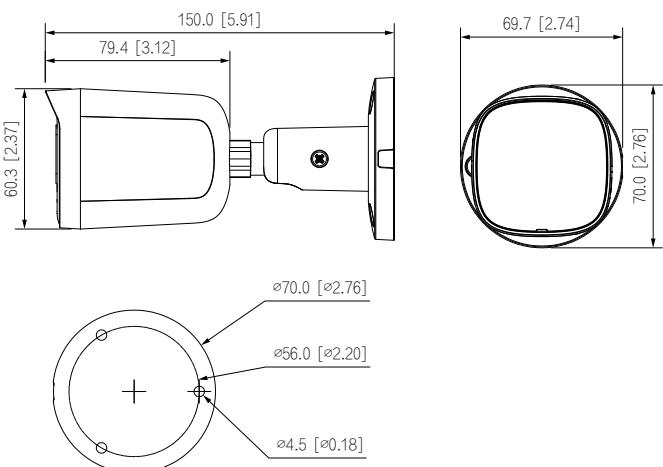
* The DIP Switch is available for select HDCVI camera models.

Technical Specification							
Camera							
Image Sensor							
Max. Resolution							
Scanning System							
Electronic Shutter Speed							
Min. Illumination							
S/N Ratio							
Illumination Distance							
Illuminator On/Off Control							
Illuminator Number							
Angle Adjustment							
Lens							
Lens Type							
Auto Focus							
Lens Mount							
Focal Length							
Max. Aperture							
Field of View							
Iris Control							
Close Focus Distance							
DORI Distance	Lens		Detect	Observe	Recognize		
	2.8 mm		66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)		
	3.6 mm		76.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)		
	6 mm		120.0 m (393.70 ft)	48.0 m (157.48 ft)	24.0 m (78.74 ft)		
*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/project design tool.							
Video							
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); 960H (960 × 576/960 × 480)							
Day/Night							
Auto(ICR)/Color/B/W							
BLC							
BLC; HLC; DWDR;							
WDR							
DWDR							
White Balance							
Auto;Area white balance							
Gain Control							
Auto							
Noise Reduction							
2D NR							
Illumination Mode							
Smart IR&WL; WL Mode; IR Mode							
Mirror							
Yes							
Privacy Masking							
Off/On (8 areas, rectangle)							
Certification							
Certifications							
CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035							
Port							
Video Output							
Video output choices of CVI/TVI/AHD/CVBS by one BNC port							
Audio Input							
One channel built-in Mic							
Power							
Power Supply							
12 VDC ± 30%							
Power Consumption							
Max 4.0 W (12V DC, WLED on)							
Environment							
Operating Temperature							
-40 °C to +60 °C (-40 °F to +140 °F)							
Operating Humidity							
<95% (RH), non-condensing							
Storage Temperature							
-40 °C to +60 °C (-40 °F to +140 °F)							
Storage Humidity							
<95% (RH), non-condensing							
Protection							
IP67							
Anti-corrosion Level							
Basic Protection							
Structure							
Casing Material							
Metal							
Product Dimensions							
150.0 mm × 70.0 mm × 69.7 mm (5.91" × 2.76" × 2.74")							
Net Weight							
0.31 kg (0.68 lb)							
Gross Weight							
0.38 kg (0.84 lb)							
Installation							
Wall mount; ceiling mount; vertical pole mount							

Ordering Information

Type	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:



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

