

DH-HAC-B2A51-U-IL

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.220323 or later version.
- · Max 25 fps@5MP (16:9 video output).
- · Smart Dual Light.
- \cdot 30 m illumination distance.
- · 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.

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);
Camera						Resolution	1080р (1920 × 1080); 960Н (960 × 576/960 × 480)	
Image Sensor		5 MP CMOS					Day/Night	Auto(ICR)/Color/B/W
Max. Resolution		2880 (H) × 1620 (V)					BLC	BLC; HLC; DWDR;
Scanning System		Progressive					WDR	DWDR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					White Balance	Auto;Area white balance
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE)					Gain Control	Auto
		0 lux (Illuminator on)					Noise Reduction	2D NR
S/N Ratio		>65 dB					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Illumination Distance		IR: 30 m (98.43 ft); Warm Light: 20 m (65.62 ft)					Mirror	Yes
Illuminator On/Off Control		Auto;Manual					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator Number		2 (Warm light);2 (IR light)					Certification	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Lens						Port		
Lens Type		Fixed-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Auto Focus		No					Power	
Lens Mount		M12					Power Supply	12 VDC ± 30%
Focal Length		2.8 mm; 3.6 mm; 6 mm					Power Consumption	Max 4.0 W (12V DC, WLED on)
Max. Aperture		F2.0					Environment	
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		6 mm: H: 54°; V: 29°; D: 62°					Operating Humidity	<95% (RH), non-condensing
Iris Control		Fixed					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft)					Storage Humidity	<95% (RH), non-condensing
DORI Distance		6 mm: 2.8 m					Protection	IP67
	Lens	Detect	Observe	Recognize	Identify		Anti-corrosion Level	Basic Protection
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Structure	
	3.6 mm	76.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)		Casing Material	Metal
	6 mm	120.0 m (393.70 ft)	48.0 m (157.48 ft)	24.0 m (78.74 ft)	12.0 m (39.37 ft)		Product Dimensions	150.0 mm × 70.0 mm × 69.7 mm (5.91" × 2.76" × 2.74")
		ect, Observe, Recognize, Identify) is a standard system					Net Weight	0.31 kg (0.68 lb)
	(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.						Gross Weight	0.38 kg (0.84 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount

Video

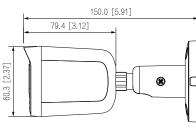
PAL: 960H; NTSC: 960H	,
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project design tool.

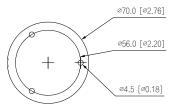
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Ordering Information							
Туре	Model	Description					
5MP	DH-HAC-B2A51P-U-IL	5MP Smart Dual Light HDCVI Fixed- focal Bullet Camera, PAL					
Camera	DH-HAC-B2A51N-U-IL	5MP Smart Dual Light HDCVI Fixed- focal Bullet Camera, NTSC					
	PFA134	Junction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

Dimensions (mm[inch])







Accessories

Optional:



PFA134 Junction Box



PFM800-4K 1-CH Passive Video Balun



PFA130-E Water-proof Junction Box



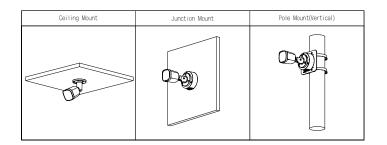
PFM321D 12V 1A Power Adapter



PFA152-E Pole Mount Bracket



PFM904 Integrated Mount Tester



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