

DH-HAC-B1A51N-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 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.
- · 2.8 mm fixed lens
- · 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.

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.

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.

Technical Specification								5M (2880 × 1620);	
Camera							Resolution	4M (2560 × 1440); 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) 0 lux (Illuminator on)					Gain Control	Auto	
S/N Ratio		>65 dB					Noise Reduction	2D NR	
•		IR: 30 m (98.43 ft)					Illumination Mode	Smart IR&WL WL Mode; IR Mode	
Illumination Distance		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					Audio Input	NO	
Lens Mount		M12					Power		
Focal Length	Focal Length		2.8 mm; 3.6 mm; 6 mm				Power Supply	12 VDC ± 30%	
Max. Apertu	re	F2.0					Power Consumption	Max 4.0 W (12V DC, WLED on)	
Field of View		2.8 mm: H: 106°; V: 56°; D: 125°					Environment		
rield of View		3.6 mm: H: 92°; V: 48°; D: 109° 6 mm: H: 54°; V: 29°; D: 62°					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Iris Control		Fixed					Operating Humidity	<95% (RH), non-condensing	
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
		6 mm: 2.8 m					Storage Humidity	<95% (RH), non-condensing	
	Lens	Detect	Observe	Recognize	Identify		Protection	IP67	
	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)		Anti-corrosion Level	Basic Protection	
0.001	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)		Structure		
DORI Distance	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)		Casing Material	Plastic	
	*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.						Product Dimensions	146.1 mm × 70.0 mm × 69.8 mm (5.75" × 2.76" × 2.75")	
							Net Weight	0.17 kg (0.37 lb)	
							Gross Weight	0.25 kg (0.55 lb)	
Video							Installation	Wall mount; ceiling mount; vertical pole mount	

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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

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Ordering Information						
Туре	Model	Description				
5MP	DH-HAC-B1A51P-U-IL	5MP Smart Dual Light HDCVI Fixed- focal Bullet Camera, PAL				
Camera	DH-HAC-B1A51N-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				

Accessories

Optional:







PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



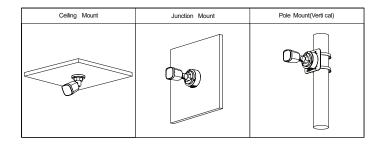
PFM800-4K 1-CH Passive Video Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

