

DH-HAC-B1A51-U

5MP IR HDCVI Fixed-focal Bullet Camera



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 IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

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.

- * In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.000001.0.R.200908 or later version.
- · Max 25 fps@5MP (16:9 video output).
- · Smart IR Illumination.
- · 30 m illumination distance.
- \cdot 3.6 mm fixed lens (2.8 mm,6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













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.

Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

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.

Technical Specification							Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		5 MP CMOS					BLC	BLC; HLC; DWDR
Max. Resolution		2880 (H) × 1620 (V)					WDR	DWDR
Scanning System		Progressive					White Balance	Auto;Area white balance
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s;					Gain Control	
		NTSC: 1/30 s-1/100,000 s 0.02 lux@F2.0 (Color, 30 IRE)						Auto;Manual
Min. Illumination		0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Noise Reduction	2D NR
S/N Ratio		>65 dB					Illumination Mode	Smart IR
Illumination Distance		30 m (98.43 ft)					Mirror	Yes
Illuminator On/Off Control		Auto;Manual					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator Number		3 (IR light)					Certification	CE-LVD: EN 62368-1;
		Pan: 0°-360°					Certifications	CE-EMC: EN 55032; EN 55035
Angle Adjus	Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°				Port	
Lens							Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens Type		Fixed-focal					Audio Input	N/A
Lens Mount		M12					Power	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Power Supply	12 VDC ± 30%
Max. Apertu	Max. Aperture		F2.0				Power Consumption	Max 3.7 W (12 VDC, IR on)
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°					Environment	
			6 mm: H: 54°; V: 29°; D: 62°				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control	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
	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	126.0 m (413.39 ft)	50.4 m (165.35 ft)	25.2 m (82.68 ft)	12.6 m (41.34 ft)		Casing Material	Plastic
		*DORI (Detect, Observe, Recognize, Identify) is a standard system					Product Dimensions	146.1 mm × 70.0 mm × 69.8 mm (5.75" × 2.76" × 2.75")
	(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/						Net Weight	0.17 kg (0.37 lb)
							Gross Weight	0.25 kg (0.55 lb)
) /: -l	project design		n tool.				Installation	Wall mount; ceiling mount; vertical pole mount
Video								

PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps; 1080P@30

fps AHD:

TVI:

Video Frame Rate

PAL: 4M@25 fps; NTSC: 4M@30 fps

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	5MP IR HDCVI Fixed-focal Bullet Camera, PAL					
Camera	DH-HAC-B1A51N-U	5MP IR HDCVI Fixed-focal Bullet Camera, NTSC					
	PFA134	Junction Box					
	PFA130-E	Water-proof Junction Box					
Accessories	PFA152-E	Pole Mount Bracket					
(Optional)	PFM321D	12V 1A Power Adapter					
	PFM800-4K	1-CH Passive Video Balun					
	PFM904	Integrated Mount Tester					

Accessories

Optional:







PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



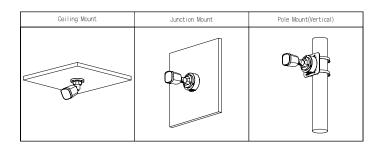
PFM321D 12V 1A Power Adapter



PFM800-4K 1-CH Passive Video Balun



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

