

DH-HAC-B2A51-U

5MP IR HDCVI Fixed-focal Bullet Camera



* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version.

- · Max 25 fps@5MP (16:9 video output).
- · Smart IR Illumination.
- · 30 m illumination distance.
- · 3.6 mm fixed lens (2.8 mm,6 mm 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 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.

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 ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

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Technical	S	pecification
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Camera						
Image Senso	r	5 MP CMOS				
Max. Resolut	ion	2880 (H) × 1620 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s				
Min. Illumina	ition	0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination	Illumination Distance		30 m (98.43 ft)			
Illuminator On/Off Control		Auto;Manual				
Illuminator N	Illuminator Number		3 (IR light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Lens Mount		M12				
Lens Mount Focal Length		M12 2.8 mm; 3.6 r	nm; 6 mm			
			nm; 6 mm			
Focal Length	re	2.8 mm; 3.6 r F2.0 2.8 mm: H: 1 3.6 mm: H: 9	nm; 6 mm D6°; V: 56°; D: 1 2°; V: 48°; D: 10 ; V: 29°; D: 62°			
Focal Length Max. Apertu	re	2.8 mm; 3.6 r F2.0 2.8 mm: H: 1 3.6 mm: H: 9	06°; V: 56°; D: 1 2°; V: 48°; D: 10			
Focal Length Max. Apertu Field of View	re	2.8 mm; 3.6 r F2.0 2.8 mm: H: 1 3.6 mm: H: 9 6 mm: H: 54°	D6°; V: 56°; D: 1 2°; V: 48°; D: 1C ; V: 29°; D: 62° n (3.28 ft) n (4.27 ft)			
Focal Length Max. Apertu Field of View Iris Control	re	2.8 mm; 3.6 r F2.0 2.8 mm: H: 11 3.6 mm: H: 9 6 mm: H: 54* Fixed 2.8 mm: 1.0 r 3.6 mm: 1.3 r	D6°; V: 56°; D: 1 2°; V: 48°; D: 1C ; V: 29°; D: 62° n (3.28 ft) n (4.27 ft)		Identify	
Focal Length Max. Apertu Field of View Iris Control	re Distance	2.8 mm; 3.6 r F2.0 2.8 mm: H: 1 3.6 mm: H: 9 6 mm: H: 54° Fixed 2.8 mm: 1.0 r 3.6 mm: 1.3 r 6 mm: 2.8 m	D6°; V: 56°; D: 1 2°; V: 48°; D: 10 V: 29°; D: 62° n (3.28 ft) n (4.27 ft) (9.19 ft)	99°	Identify 6.6 m (21.65 ft)	
Focal Length Max. Apertu Field of View Iris Control	re Distance Lens	2.8 mm; 3.6 r F2.0 2.8 mm: H: 10 3.6 mm: H: 54° 6 mm: H: 54° Fixed 2.8 mm: 1.0 r 3.6 mm: 1.3 r 6 mm: 2.8 m Detect 66.0 m	D6°; V: 56°; D: 1 2°; V: 48°; D: 10 ; V: 29°; D: 62° n (3.28 ft) n (4.27 ft) (9.19 ft) Observe 26.4 m	99° Recognize 13.2 m	6.6 m	
Focal Length Max. Apertu Field of View Iris Control	re Distance Lens 2.8 mm	2.8 mm; 3.6 r F2.0 2.8 mm; H: 10 3.6 mm; H: 54* Fixed 2.8 mm; 1.0 r 3.6 mm; 1.3 r 6 mm; 2.8 m Detect 6.0 m (216.54 ft) 76.0 m	D6°; V: 56°; D: 1 2°; V: 48°; D: 10 2°; V: 29°; D: 62° n (3.28 ft) n (4.27 ft) (9.19 ft) Observe 26.4 m (86.61 ft) 30.4 m	99° Recognize 13.2 m (43.31 ft) 15.2 m	6.6 m (21.65 ft) 7.6 m	

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

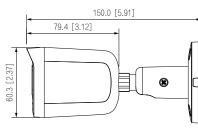
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR
WDR	DWDR
White Balance	Auto;Area white balance
Gain Control	Auto;Manual
Noise Reduction	2D NR
Illumination Mode	Smart IR
Mirror	Yes
Privacy Masking	Off/On (8 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
Power	
Power Supply	12 VDC ± 30%
Power Consumption	Max 3.7 W (12 VDC, IR 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 × 69.7 mm × 70.0 mm (5.91" × 2.74" × 2.76")
Net Weight	0.31 kg (0.68 lb)
Gross Weight	0.38 kg (0.84 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

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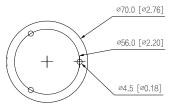
Ordering Information

Туре	Model	Description
5MP Camera	DH-HAC-B1A51P-U	5MP IR HDCVI Fixed-focal Bullet Camera, PAL
	DH-HAC-B1A51N-U	5MP IR HDCVI Fixed-focal Bullet Camera, NTSC
Accessories (Optional)	PFA134	Junction Box
	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])







Accessories

Optional:







PFM321D 12V 1A Power Adapter



PFA130-E Water-proof Junction Box



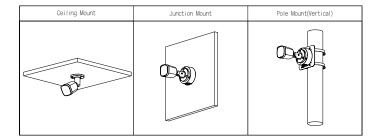
PFM800-4K 1-CH Passive Video Balun



PFA152-E Pole Mount Bracket



PFM904 Integrated Mount Tester



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