

DH-HAC-B2A51N-U-A-0280B-S2

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 V4.001.000001.0.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.
- · Built- in MIC.















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

Technical Specification							BLC	BLC; HLC; DWDR
Camera							WDR	DWDR
Image Sensor		5 MP CMOS					White Balance	Auto;Area white balance
Max. Resolution		2880 (H) × 1620 (V)					Gain Control	Auto;Manual
Scanning System		Progressive					Noise Reduction	2D NR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Illumination Mode	Smart IR
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE)					Mirror	Yes
		0 lux (Illuminator on)					Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Certification	
Illumination Distance		30 m (98.43 ft)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illuminator On/Off Control		Auto;Manual					Port	
Illuminator Number		3 (IR light)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Power	port
Lens		notation 5 300					Power Supply	12 VDC ± 30%
Lens Type		Fixed-focal					Power Consumption	Max 3.7 W (12 VDC, IR on)
Lens Mount		M12					Environment	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F2.0					Operating Humidity	<95% (RH), non-condensing
		2.8 mm: H: 106°; V: 56°; D: 125°					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		3.6 mm: H: 92°; V: 48°; D: 109° 6 mm: H: 54°; V: 29°; D: 62°					Storage Humidity	<95% (RH), non-condensing
Iris Control		Fixed					Protection	IP67
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft)					Anti-corrosion Level	Basic Protection
		3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.8 m (9.19 ft)					Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Casing Material	Metal
	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)		Product Dimensions	150.0 mm × 69.7 mm × 70.0 mm (5.91" × 2.74" × 2.76")
	3.6 mm	76.0 m	30.4 m	15.2 m	7.6 m		Net Weight	0.31 kg (0.68 lb)
	6 mm	(249.34 ft) 126.0 m	(99.74 ft) 50.4 m	(49.87 ft) 25.2 m	(24.93 ft) 12.6 m		Gross Weight	0.38 kg (0.84 lb)
) C 1	6 mm	(413.39 ft)	(165.35 ft)	(82.68 ft)	(41.34 ft)		Installation	Wall mount; ceiling mount; vertical pole mount
Video								
		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

5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 ×

1080); 960H (960 × 576/960 × 480)

fps AHD:

TVI:

Video Frame Rate

Resolution

Day/Night

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

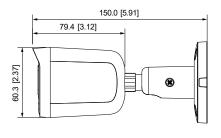
PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H

Auto(ICR)/Color/B/W

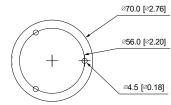
Cooper Series | DH-HAC-B2A51N-U-A-0280B-S2

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				

Dimensions (mm[inch])







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

Ceiling Mount	Junction Mount	Pole Mount(Verti cal)