

# 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 V4.001.000001.0.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.













#### **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.

# Cooper Series | DH-HAC-B2A51-U

Technical Specification						Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 ×
Camera						Day/Night	1080); 960H (960 × 576/960 × 480)
Image Sensor	5 MP CMOS	5 MP CMOS					Auto(ICR)/Color/B/W
Max. Resolution	2880 (H) × 16	2880 (H) × 1620 (V)				BLC	BLC; HLC; DWDR
Scanning System	Progressive					WDR	DWDR
Electronic Shutter Speed	PAL: 1/25 s-1/100,000 s;					White Balance	Auto;Area white balance
	NTSC: 1/30 s-1/100,000 s 0.02 lux@F2.0 (Color, 30 IRE)					Gain Control	Auto;Manual
Min. Illumination 0.002 [ux@F2.0 (B/W, 30 IRE) 0 [ux@(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					Privacy Masking	Off/On (8 areas, rectangle)	
				Certification			
Illuminator Number  3 (IR light)  Pan: 0°–360°				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035		
Angle Adjustment	Tilt: 0°-90°					Port	
Lens				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Lens Type Fixed-focal				Power			
Lens Mount	Lens Mount M12				Power Supply	12 VDC ± 30%	
Focal Length 2.8 mm; 3.6 mm; 6 mm				Power Consumption	Max 3.7 W (12 VDC, IR on)		
Max. Aperture F2.0						Environment	
2.8 mm: H: 106°; V: 56°; D: 125° Field of View 3.6 mm: H: 92°; V: 48°; D: 109°				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
ricia of view		6 mm: H: 54°; V: 29°; D: 62°				Operating Humidity	<95% (RH), non-condensing
Iris Control	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) 6 mm: 2.8 m (9.19 ft)				Storage Humidity	<95% (RH), non-condensing
	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
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)		Product Dimensions	150.0 mm × 69.7 mm × 70.0 mm (5.91" × 2.74" × 2.76")
*DORI (Dete	OORI (Detect, 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 rsons or objects within a covered area. The numbers in					Gross Weight	0.38 kg (0.84 lb)
this table do	not reflect intell ances, refer to ir	ot reflect intelligent function distances. For intelligent nces, refer to installation and commissioning manual/				Installation	Wall mount; ceiling mount; vertical pole mount
Video							

CVB3.
PAL: 960H;
NTSC: 960H

fps AHD:

TVI:

Video Frame Rate

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

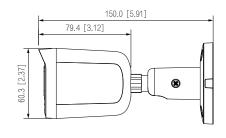
PAL: 4M@25 fps; NTSC: 4M@30 fps

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

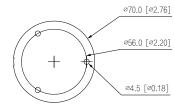
# Cooper Series | DH-HAC-B2A51-U

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				
	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

