

DH-HAC-B2A51-U-A

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

Built-in Mic

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

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.

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.

- * The parameters and datasheets below can only be applied to A51-S3 series.
- · Max 25 fps@5MP (16:9 video output)
- · Smart IR Illumination.
- · 30 m illumination distance.
- · Built-in MIC.
- · 3.6 mm fixed lens (2.8 mm,6mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.















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.

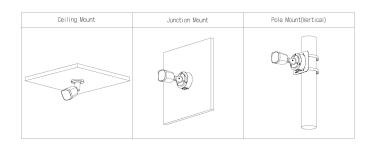
PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 5M 16:9@20 fps NTSC: 5M 16:9@20 fps

Technical Specification							Video Framo Pato	CVBS:
Camera							Video Frame Rate	PAL: 960H NTSC: 960H
Image Sensor		5 MP CMOS				Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480); TVI 5M 16:9 (2960 × 1665)	
Max. Resolution		2880 (H) × 1620 (V)						
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					BLC	BLC; HLC; WDR
		0.02 lux@F2.0 (Color, 30 IRE)					WDR	DWDR
Min. Illumination		0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					White Balance	Auto;Area white balance
S/N Ratio		>65 dB					Gain Control	Auto
Illumination Distance		IR: 30 m (98.43 ft)					Noise Reduction	2D NR
Illuminator On/Off Control		Auto/Manual					Illumination Mode	Smart IR
Illuminator Number		3 (IR light)					Mirror	Yes
mummator Number		Pan: 0°–360°					Privacy Masking	Off/On (8 areas, rectangle)
Angle Adjustment		Tilt: 0°-90°					Certification	
Lens		Rotation: 0°–360°					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Lens Type		Fixed-focal					Audio	
Lens Mount		M12					Built-in Mic	Yes
Focal Length		2.8 mm; 3.6 mm; 6 mm					Camera Audio	CVI; TVI
Max. Aperture		F2.0					Pick-up Distance	8 m (26.25 ft)
Field of View		2.8 mm: H: 105.5°; V: 56.5°; D: 125.3° 3.6 mm: H: 86°; V: 46.1°; D: 104.3° 6 mm: H: 53.9°; V: 30.7°; D: 62.1°					Port	
							Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.4 m (4.59 ft)					Power	
		6 mm: 2.6 m (8.53 ft)					Power Supply	12 VDC (±30%)
	Lens	Detect	Observe	Recognize	Identify		Power Consumption	Max 3.5 W (12 VDC, IR on)
	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)		Environment	
		79.4 m	31.8 m	15.9 m	7.9 m		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI Distance	3.6 mm	(260.50 ft)	(104.33 ft)	(52.17 ft)	(25.92 ft)		Operating Humidity	<95% (RH), non-condensing
	6 mm	118 m (387.14 ft)	47.2 m (154.86 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	*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.						Storage Humidity	<95% (RH), non-condensing
							Protection	IP67
							Anti-corrosion Level	Basic Protection
							Structure	
Video							Casing Material	Metal
video		CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps					Product Dimensions	150.0 mm × 69.7 mm × 70.0 mm (5.91" × 2.74" × 2.76") (L × W × H)
							Net Weight	0.31 kg (0.68 lb)
		NTSC: 5M@25 fps; 5M@20 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps					Gross Weight	0.38 kg (0.84 lb)
Video Frame Rate		AHD: PAL: 4M@25 fps					Installation	Wall mount; ceiling mount; vertical pole mount

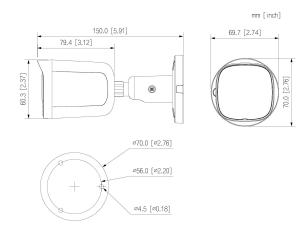
Wall mount; ceiling mount; vertical pole mount

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Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-B2A51N-U-A	5MP IR HDCVI Fixed-focal Bullet Camera,NTSC						
HDCVI CAIVIENA	DH-HAC-B2A51P-U-A	5MP IR HDCVI Fixed-focal Bullet Camera,PAL						
	G3416GW	G3/4" Water Joint						
	DH-PFA130-E	Water-proof Junction Box						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA152-E	Pole Mount Bracket						
Accessories (Optional)	DH-PFA134	Junction Box						
	DH-PFM800-4K	1 Channel Passive HDCVI Balun						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM904	Integrated Mount Tester						



Dimensions (mm[inch])



Accessories

Optional:



DH-PFA130-E Water-proof Junction Box



DH-PFA134 Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



G3416GW G3/4" Water Joint



PFM904 Integrated Mount Tester