

DH-HAC-B1A21-U 2MP 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.

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.

- · Max. 30 fps@1080p.
- · 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.



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.

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Technical	Specificatio	on					White Balance	Auto
Camera				Gain Control	Auto			
Image Sensor		2 MP CMOS					Noise Reduction	2D NR
Max. Resolution		1920 (H) × 1080 (V)					Illumination Mode	Smart IR
Scanning System		Progressive					Certification	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Port	Video output choices of CVI/TVI/AHD/CVBS by one BN
S/N Ratio		>65 dB					Video Output	port
Illumination Distance		30 m (98.43 ft)					Power	
Illuminator On/Off Control		Auto/Manual					Power Supply	12 VDC ± 30%
Illuminator Number		2 (IR light)					Power Consumption	Max 2.8 W (12 VDC, IR on)
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Environment	
							Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens							Operating Humidity	<95% (RH), non-condensing
Lens Type		Fixed-focal					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens Mount		M12					Storage Humidity	<95% (RH), non-condensing
Focal Length		2.8 mm; 3.6 mm; 6 mm					Protection	IP67
Max. Apertu	re	F2.0					Anti-corrosion Level	Basic Protection
		2.8 mm: H: 100°; V: 54°; D: 117°					Structure	
Field of View		3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50°					Casing Material	Plastic
Iris Control		Fixed					Product Dimensions	146.1mm × 70.0 mm × 69.8mm (5.75" × 2.76" × 2.75
Close Focus Distance 3.6			2.8 mm: 0.5 m (1.64 ft)				Net Weight	0.15 kg (0.33 lb)
		3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.4 m (7.87 ft)					Gross Weight	0.23 kg (0.51 lb)
	Lens	Detect	Observe	Recognize	Identify		Installation	Wall mount; ceiling mount; vertical pole mount
DORI	2.8 mm	44.7 m (146.65 ft)	17.9 m (58.73 ft)	8.9 m (29.20 ft)	4.5 m (14.76 ft)			
Distance								

Video

Distance

3.6 mm

6 mm

Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; DWDR
WDR	DWDR

55.0 m

102.9 m

(180.45 ft) (72.18 ft)

22.0 m

41.1 m

(337.6 ft) (134.84 ft) (67.59 ft)

11.0 m

(36.09 ft)

20.6 m

5.5 m

(18.04 ft)

10.3 m

(33.79 ft)

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Ordering Information

Туре	Model	Description	
2MP Camera	DH-HAC-B1A21P-U	2MP IR HDCVI Fixed-focal Bullet Camera, PAL	
	DH-HAC-B1A21N-U	2MP IR HDCVI Fixed-focal Bullet Camera, NTSC	
	PFA134	Junction Box	
	PFA130-E	Water-proof Junction Box	
Accessories	PFA152-E	Pole Mount Bracket	
(Optional)	PFM800-E	Passive HDCVI Balun	
	PFM321D	12V 1A Power Adapter	
	PFM904	Integrated Mount Tester	

Dimensions (mm[inch])







Optional:



PFA134 Junction Box



PFM800-E Passive HDCVI Balun



PFA130-E Water-proof Junction Box



PFM321D 12V 1A Power Adapter







PFM904 Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Verti cal)