

DH-HAC-B1A21-U-A

2MP Smart 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.

Broadcast-quality Audio

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.

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.

* In order to use the HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

Max. 30 fps@1080p.

Smart IR Illumination.

30 m illumination distance.

Built-in MIC.

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.

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.

^{*} Audio input is available for select HDCVI camera models.

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Technical Specification							Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		2 MP CMOS					BLC	BLC; HLC; DWDR
Max. Resolution		1920 (H) × 1080 (V)					WDR	DWDR
Scanning System		Progressive					White Balance	Auto;Area white balance
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Gain Control	Auto;Manual
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Noise Reduction	2D NR Smart IR Mode
S/N Ratio		>65 dB					Mirror	Yes
		IR: 30 m (98.43 ft);					Privacy Masking	Off/On (8 areas, rectangle)
Illumination Distance							Certification	on, on to dread, rectangle,
Illuminator On/Off Control		Auto; Manual						CE-LVD: EN 62368-1;
Illuminator Number		IR light					Certifications	CE-EMC: EN 55032; EN 55035
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°					Port	
1			Rotation: 0°–360°				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens							Audio Input	One channel built-in Mic
Lens Type		Fixed-focal					Power	
Lens Mount		M12					Power Supply	12 VDC ± 30%
Focal Length		2.8 mm; 3.6 mm; 6 mm					Power Consumption	Max 2.8 W (12 VDC, LED on)
Max. Aperture		F2.0					Environment	
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50°					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed					Operating Humidity	<95% (RH), non-condensing
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.4 m (7.87 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
							Storage Humidity	<95% (RH), non-condensing
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Protection	IP67
	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m	ft)	Anti-corrosion Level	Basic Protection
		(146.65 ft) 55.0 m	(58.73 ft) 22.0 m	(29.20 ft) 11.0 m	(14.76 ft) 5.5 m		Structure	
	3.6 mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(18.04 ft)		Casing Material	Plastic
	6 mm	102.9 m (337.60 ft)	41.1 m (134.84 ft)	20.6 m (67.59 ft)	10.3 m (33.79 ft)		Product Dimensions	146.1 mm × 70.0 mm × 69.8 mm (5.75" × 2.76" × 2.75")
	*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.						Net Weight	0.15 kg (0.33 lb)
							Gross Weight	0.23 kg (0.51 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount
Video								

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

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Ordering Information						
Туре	Model	Description				
2MP	DH-HAC-B1A21P-U-A	2MP IR HDCVI Fixed- focal Bullet Camera, PAL				
Camera	DH-HAC-B1A21N-U-A	2MP 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-E	Passive HDCVI Balun				
	PFM904	Integrated Mount Tester				

Accessories

Optional:







PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket



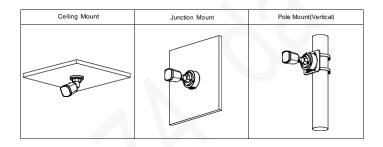
PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

