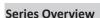


DH-HAC-B1A21-A

2MP HDCVI Fixed-focal Bullet Camera



- · Max. 30 fps@1080p.
- · Smart IR Illumination.
- · 20 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.



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.

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.

Cooper













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.

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.

Cooper Series | DH-HAC-B1A21-A

Technical Specification							WDR	DWDR
Camera						White Balance	Auto	
Image Sensor		2 MP CMOS					Gain Control	Auto
Max. Resolution		1920 (H) × 1080 (V)					Noise Reduction	2D NR
Scanning System		Progressive					Illumination Mode	Smart IR
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s					Certification	
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B
S/N Ratio		>65 dB					Port	
Illumination Distance		20 m (65.62 ft)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator On/Off Control		Auto					Audio Input	One channel built-in Mic
Illuminator Number		2 (IR light)					Power	
Angle Adjustment		Pan: 0°–360°					Power Supply	12 VDC ± 30%
		Tilt: 0°–90° Rotation: 0°–360°					Power Consumption	Max 2.8 W (12 VDC, IR on)
Lens							Environment	
Lens Type		Fixed-focal					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens Mount		M12					Operating Humidity	<95% (RH), non-condensing
Focal Length		2.8 mm; 3.6 mm; 6 mm					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F2.0					Storage Humidity	<95% (RH), non-condensing
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H:80°; V: 43°; D: 94°					Protection	IP67
Tield of view		6 mm: H: 43°; V: 24°; D: 50°					Anti-corrosion Level	Basic Protection
Iris Control		Fixed					Structure	
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)					Casing Material	Plastic
		6 mm: 2.8 m (9.19 ft)				Product Dimensions	149.3 mm × 69.8 mm × 69.8 mm (5.88" × 2.75" × 2.75")	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Net Weight	0.14 kg (0.31 lb)
	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)		Gross Weight	0.22 kg (0.49 lb)
	3.6 mm	55.0 m (180.45 ft)	22.0 m (72.18 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)		Installation	Wall mount; ceiling mount; vertical pole mount
	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)			

1080p (1920 × 1080); 960H (960 × 576/960 × 480)

CVI:

AHD:

TVI:

CVBS: PAL: 960H; NTSC: 960H

PAL: 1080p@25 fps NTSC: 1080p@30 fps

PAL: 1080p@25 fps NTSC: 1080p@30 fps

PAL: 1080p@25 fps NTSC: 1080p@30 fps

Auto(ICR)/Color/B/W

BLC; DWDR

Video

Video Frame Rate

Resolution

Day/Night

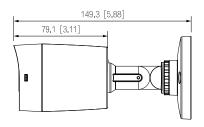
BLC

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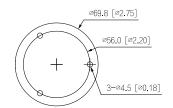
Ordering Information							
Туре	Model	Description					
2MP	DH-HAC-B1A21P-A	2MP HDCVI Fixed-focal Bullet Camera, PAL					
Camera	DH-HAC-B1A21N-A	2MP HDCVI Fixed-focal Bullet Camera NTSC					
	PFA134	Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM321D	12V 1A Power Adapter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

Celling Mount Junction Mount Pole Mount(Vertical)

Dimensions (mm[inch])







Accessories

Optional:







PFA152-E Pole Mount Bracket









PFM904 Integrated Mount Tester