

# DH-HAC-B1A21-U-IL

2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



- · Max. 30 fps@1080p.
- · Smart Dual Light.
- · 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 Dual Light**

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

### 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.

#### 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 Specification							WDR	DWDR
Camera							White Balance	Auto;Area white balance
Image Sensor		2 MP CMOS					Gain Control	Auto;Manual
Max. Resolution		1920 (H) × 1080 (V)					Noise Reduction	2D NR
Scanning System		Progressive					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Mirror	Yes
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Privacy Masking  Certification	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Certifications	CE-LVD: EN 62368-1;
Illumination Distance		IR: 30 m (98.43 ft); Warm light: 20 m (65.62 ft)					Port	CE-EMC: EN 55032; EN 55035
Illuminator On/Off Control		Auto;Manual					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		2 (Warm light);2 (IR light)					Power	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Power Supply	12 VDC ± 30%
Lens			Sation. 0 300				Power Consumption	Max 3.3 W (12 VDC, LED on)
		Fixed-focal					Environment	
Lens Type							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  2.8 mm: H: 100°; V: 54°; D: 117°					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° 6 mm: H: 43°; V: 24°; D: 50°					Protection	IP67
Iris Control		Fixed					Anti-corrosion Level	Basic Protection
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft)					Structure	
		3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.4 m (7.87 ft)					Casing Material	Plastic
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Product Dimensions	146.1 mm × 70.0 mm × 69.8 mm (5.75" × 2.76" × 2.75")
	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m		Net Weight	0.15 kg (0.33 lb)
		(146.65 ft) 55.0 m	(58.73 ft) 22.0 m	(29.20 ft) 11.0 m	(14.76 ft) 5.5 m		Gross Weight	0.23 kg (0.51 lb)
	3.6 mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(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)			

Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W

BLC; HLC; DWDR

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

Video

BLC

Video Frame Rate

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Ordering Information							
Туре	Model	Description					
2MP	DH-HAC-B1A21P-U-IL	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, PAL					
Camera	DH-HAC-B1A21N-U-IL	2MP Smart Dual Light 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



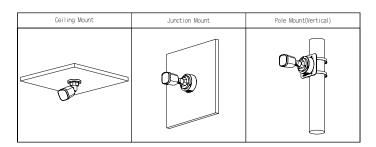
PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



# Dimensions (mm[inch])

