

# 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.

## Cooper Series | DH-HAC-B1A21-U-IL

Video

Video Frame Rate

Resolution

Day/Night

BLC

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; HLC; DWDR

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

Technical	Specification	on					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;					Mirror	Yes
		NTSC: 1/30 s-1/100,000 s 0.02 lux@F2.0 (Color, 30 IRE);					Privacy Masking	Off/On (8 areas, rectangle)
Min. Illumination		0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Certification	
S/N Ratio		>65 dB					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illumination Distance		IR: 30 m (98.43 ft); Warm light: 20 m (65.62 ft)					Port	CE EIVIC. EN 33032, EN 33033
Illuminator On/Off Control		Auto;Manual					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Illuminator Number		2 (Warm light);2 (IR light)					Power	port
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Power Supply	12 VDC ± 30%
							Power Consumption	Max 3.3 W (12 VDC, LED 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. Apertu	re	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
Iris Control		6 mm: H: 43°; V: 24°; D: 50° Fixed					Anti-corrosion Level	Basic Protection
ins control	Iris Control		2.8 mm: 0.5 m (1.64 ft)				Structure	
Close Focus Distance		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	0.20 kg (0.44 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)			

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# Cooper Series | DH-HAC-B1A21-U-IL

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

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

### Dimensions (mm[inch])





