

# DH-HAC-B1A21N-U-A-0280B

## 2MP IR HDCVI Fixed-focal Bullet Camera



#### · Max. 30 fps@1080p.

- $\cdot$  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.
- · Built-in MIC.



#### **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.

#### 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						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 BI
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. Aperture		F2.0				Anti-corrosion Level	Basic Protection
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°				Structure	
						Casing Material	Plastic
Iris Control		Fixed				Product Dimensions	146.1mm × 70.0 mm × 69.8mm (5.75" × 2.76" × 2.75
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)				Net Weight	0.15 kg (0.33 lb)
						Gross Weight	0.23 kg (0.51 lb)
DORI	Lens	Detect	Observe	Recognize	Identify	Installation	Wall mount; ceiling mount; vertical pole mount
	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)		

Video

DORI Distance

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

3.6 mm

6 mm

22.0 m

41.1 m

(180.45 ft) (72.18 ft)

11.0 m

20.6 m

(36.09 ft)

(337.6 ft) (134.84 ft) (67.59 ft) (33.79 ft)

5.5 m

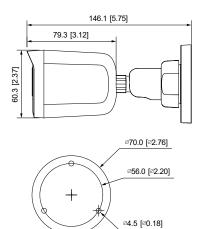
(18.04 ft)

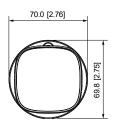
10.3 m

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#### **Ordering Information** Туре Model Description 2MP IR HDCVI Fixed-focal Bullet DH-HAC-B1A21P-U Camera, PAL 2MP Camera 2MP IR HDCVI Fixed-focal Bullet DH-HAC-B1A21N-U Camera, NTSC PFA134 Junction Box PFA130-E Water-proof Junction Box PFA152-E Pole Mount Bracket Accessories (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



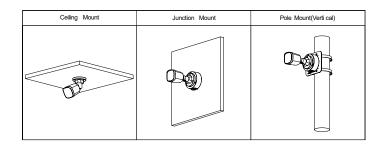
PFM321D 12V 1A Power Adapter







PFM904 Integrated Mount Tester



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