

# DH-HAC-B2A21P-U-A

2MP IR HDCVI Fixed-focal Bullet Camera



- · 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.















#### **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.

#### 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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project design tool.

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

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

Video

Video Frame Rate

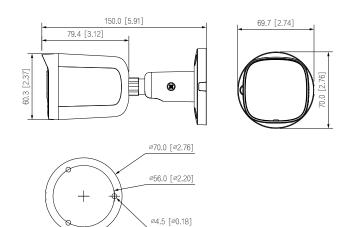
Resolution

Technical Specification							Day/Night	Auto(ICR)/Color/B/W
Camera							BLC	BLC; DWDR
Image Sensor		2 MP CMOS					WDR	DWDR
Max. Resolution		1920 (H) × 1080 (V)					White Balance	Auto
Scanning System		Progressive					Gain Control	Auto
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s; NTSC: 1/30 s-1/100000 s					Noise Reduction	2D NR
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE)					Illumination Mode	Smart IR
		0 lux (Illuminator on)					Certification	CE IVD. EN 62269 1.
S/N Ratio		>65 dB					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illumination Distance		30 m (98.43 ft)					Port	
Illuminator On/Off Control		Auto;Manual					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		2 (IR light)					Audio Input	One channel built-in Mic
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Power	
Lens							Power Supply	12 VDC ± 30%
Lens Type		Fixed-focal					Power Consumption	Max 2.8 W (12 VDC, IR on)
Lens Mount		M12					Environment	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F2.0					Operating 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°					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
							Storage Humidity	<95% (RH), non-condensing
Iris Control		Fixed					Protection	IP67
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)					Anti-corrosion Level	Basic Protection
							Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Casing Material	Metal
	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)		Product Dimensions	150.0 mm × 69.7 mm × 70.0 mm (5.91" × 2.74" × 2.76")
	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)		Net Weight	0.27 kg (0.60 lb)
	6 mm	102.9 m	41.1 m	20.6 m	10.3 m		Gross Weight	0.33 kg (0.73 lb)
		(337.6 ft) t. Observe. Rec	(134.84 ft)	(67.59 ft)  () is a standard	(33.79 ft) system		Installation	Wall mount; ceiling mount; vertical pole mount
	*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/							

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Ordering Information						
Туре	Model	Description				
2MP	DH-HAC-B2A21P-U-A	2MP IR HDCVI Fixed-focal Bullet Camera, PAL				
Camera	DH-HAC-B2A21N-U-A	2MP IR HDCVI Fixed-focal Bullet Camera, NTSC				
	PFA134	Junction Box				
	PFA130-E	Water-proof Junction Box				
Accessories	PFA152-E	Pole Mount Bracket				
(Optional)	PFM800-E	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				

# Dimensions (mm[inch])



### Accessories

#### Optional:







PFA134 Junction Box

PFA130-E Water-proof Junction Box

PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

