

DH-HAC-B2A21-U-IL-A

2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



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

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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Technical	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Camera					
Image Sensor		2 MP CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s			
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE) ; 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		IR: 30 m (98.43 ft); Warm light: 20 m (65.62 ft)			
Illuminator On/Off Control		Auto;Manual			
lluminator N	lumber	2 (Warm light);2 (IR light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
ens Mount		M12			
ocal Length		2.8 mm; 3.6 mm; 6 mm			
Max. Apertu		F2.0			
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°			
Iris Control		Fixed			
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)			
	Lens	Detect	Observe	Recognize	Identify
		44.7 m	17.9 m	8.9 m	4.5 m
DORI Distance	2.8 mm	(146.65 ft)	(58.73 ft)	(29.20 ft)	(14.76 ft)
	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)
	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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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; HLC; DWDR

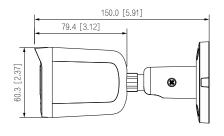
	WDR	DWDR
	White Balance	Auto;Area white balance
	Gain Control	Auto;Manual
	Noise Reduction	2D NR
	Illumination Mode	Smart IR&WL WL Mode; IR Mode
	Mirror	Yes
	Privacy Masking	Off/On (8 areas, rectangle)
	Certification	
	Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
	Port	
	Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
	Audio Input	One channel built-in Mic
	Power	
	Power Supply	12 VDC ± 30%
	Power Consumption	Max 3.3 W (12 VDC, LED on)
	Environment	
	Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Operating Humidity	<95% (RH), non-condensing
	Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Storage Humidity	<95% (RH), non-condensing
	Protection	IP67
	Anti-corrosion Level	Basic Protection
	Structure	
	Casing Material	Metal
	Product Dimensions	150.0 mm × 69.7 mm × 70.0 mm (5.91" × 2.74" × 2.76")
	Net Weight	0.27 kg (0.60 lb)
	Gross Weight	0.33 kg (0.73 lb)

Wall mount; ceiling mount; vertical pole mount

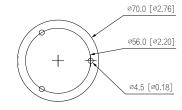
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Ordering Information						
Туре	Model	Description				
2MP	DH-HAC-B2A21P-U-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, PAL				
Camera	DH-HAC-B2A21N-U-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, NTSC				
	PFA134	Junction 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				

Dimensions (mm[inch])







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

