

DH-HAC-B2A21M-IL-A

2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera



System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

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.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.000004.1.R.220323 or later version.
- · Max. 30 fps@1080p.
- · 3D NR.
- · Smart Dual Light.
- · 20 m illumination distance.
- · Super Adapt.
- · Built-in mic.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













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.

Cooper Series | DH-HAC-B2A21M-IL-A

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Technical Specification						White Balance	Auto;Area white balance
Camera						Gain Control	Auto
Image Sensor		1/3" CMOS				Noise Reduction	3D NR
Max. Resolution	on	1920 (H) × 1080 (V)				Illumination Mode	Smart IR&WL WL Mode; IR Mode
Scanning System		Progressive				Mirror	Yes
Electronic Shu	itter Speed	PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Privacy Masking	Off/On (8 areas, rectangle)
Min. Illuminat	ion	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Certification CE-LVD: EN 62368-1;	
S/N Ratio		>65 dB				Certifications	CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14
Illumination D	istance	IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)				Port	
Illuminator Or	n/Off Control	Auto				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		1 (Warm light);1 (IR light)				Audio Input	1 channel
Angle Adjustn	nent	Pan: 0°–360° Tilt: 0°–90°				Power	
Lama		Rotation: 0°–360°				Power Supply	12 VDC ± 30%
Lens		E: 16 1				Power Consumption	Max 2.6W (12 VDC, IR on)
Lens Type		Fixed-focal				Environment	
Auto Focus		No				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				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F2.0				Storage Humidity	<95% (RH), non-condensing
Field of View		2.8 mm: H: 102°; V: 60°; D: 129° 3.6 mm: H: 83°; V: 48°; D: 105°				Protection	IP67
Iris Control		Fixed				Structure	
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6mm: 0.7 m (2.30 ft)				Casing Material	Metal
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Product Dimensions	166.6 mm × 69.7 mm × 70 mm (6.56" × 2.74" × 2.76")
	2.8 mm	41.1 m (135.83 ft)	16.5 m (42.13 ft)	8.3 m (27.23 ft)	4.1 m (13.45 ft)	Net Weight	0.32 kg (0.71 lb)
	3.6 mm	50.9 m	20.3 m	10.2 m	5.1 m	Gross Weight	0.40 kg (0.88 lb)
VC 1	J.0 IIIIII	(166.99 ft)	(66.60 ft)	(33.46 ft)	(16.73 ft)	Installation	Wall mount; ceiling mount; vertical pole mount
Video							

BLC	BLC; HLC; DWDR
WDR	DWDR

Auto(ICR)/Color/B/W

PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD:

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

CVBS: PAL: 960H; NTSC: 960H

Video Frame Rate

Resolution

Day/Night

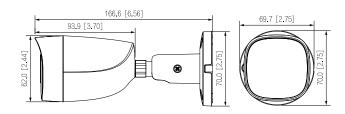
BLC

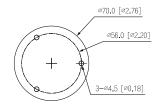
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Ordering Information							
Туре	Model	Description					
2MP Camera	DH-HAC-B2A21M-IL- A-0280	2MP HDCVI Smart Dual Light Bullet Camera, PAL					
ZIVIP Camera	DH-HAC-B2A21M-IL- A-0360	2MP HDCVI Smart Dual Light Bullet Camera, PAL					
	PFA130-E	Water-proof Junction Box					
	PFA134	Junction Box					
Accessories	PFA152-E	Pole Mount Bracket					
(Optional)	PFM800-E	Passive HDCVI Balun					
	FM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Ceiling Mount Junction Mount Pole Mount(Vertical)

Dimensions (mm [inch])





Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA134 Junction Box



PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester