

DH-HAC-B1A21

2MP HDCVI IR Bullet Camera



- · Max. 30 fps@1080p
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- · Max. IR length 20 m, Smart IR
- IP67,12 VDC













System 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.

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.

Protection

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.

Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

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.

Tachwical Specific	. Lian					WDR	DWDR
Technical Specification						White Balance	Auto; Area white balance
Camera						Gain Control	Auto/Manual
Pixel		2 MP					
Image Sensor	2MP CMOS					Noise Reduction	2D NR
Max. Resolution 1920 (H) × 1080 (V)						Smart Illumination	Yes
Scanning System	Progressive					Mirror	Yes
Electronic Shutter Speed	Speed PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					Privacy Masking	Off/On (8 areas, rectangle)
0.04 lux@F2.0 (Color, 30 IRE) Min. Illumination 0.004 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Certification	CE (EN55032:2015, EN61000-3-2:2014, EN61000-		
S/N Ratio	>65 dB					Certifications	3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Illumination Distance 20 m (65.62 ft)						Port	
Illuminator On/Off Control Auto/Manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC		
Illuminator Number 2 (IR light)				Power	port		
Pan: 0°–360° Pan/Tilt/Rotation Range Tilt: 0°–90° Rotation: 0°–360°				Power Supply	12 VDC ± 30%		
Lens						Power Consumption	Max. 2.7 W (12 VDC, IR on)
Lens Type Fixed-focal						Environment	
Lens Mount M12						Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Focal Length 2.8 mm; 3.6 mm; 6 mm				Operating Humidity	<95% (RH), non-condensing		
Max. Aperture F2.0				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
		2.8 mm: H: 100°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 42°; D: 98° 6 mm: H: 53°; V: 30°; D: 60°				Protection	IP67
Field of View						Structure	
Iris Control	Iris Control Fixed				Casing	Plastic	
Close Focus Distance	2.8 mm: 0.6 3.6 mm: 1.0					Product Dimensions	149.3 mm × 69.8 mm × 69.8 mm (5.88" × 2.75" × 2.75")
	6 mm: 2.0 m	6 mm: 2.0 m (6.56 ft)				Packaging Dimensions	164 mm × 79 mm × 90 mm (6.46" × 3.11" × 3.54")
Lens	Detect	Observe	Recognize	Identify		Net Weight	0.14 kg (0.31 lb)
2.8 mm DORI	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)		Gross Weight	0.17 kg (0.37 lb)
Distance 3.6 mm	60.9 m (199.80 ft)	24.3 m (79.72 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)		Installation	Wall mount; ceiling mount; horizontal pole mount
6 mm	82.8 m (271.65 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	8.3 m (27.23 ft)			
Video							

PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps TVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)

AHD:

CVBS: PAL: 960H NTSC: 960H

Auto (ICR)/Color/B/W

BLC; HLC; DWDR

Video Frame Rate

Resolution

Day/Night

BLC

Cooper Series | DH-HAC-B1A21

Ordering Information							
Туре	Part Number	Description					
2MP Camera	DH-HAC-B1A21P	2MP HDCVI IR Bullet Camera, PAL					
	DH-HAC-B1A21N	2MP HDCVI IR Bullet Camera, NTSC					
	PFA134	Junction Box					
	PFA134+PFA152-E	Pole Mount Bracket					
Accessories (Optional)	PFM800-E	Passive HDCVI Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Accessories

Optional:









PFA134+PFA152-E Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





