

DH-HAC-B1A21

2MP HDCVI IR Bullet Camera

HDCVI



- · Max. 30fps@1080P
- · HD and SD output switchable
- · 3.6mm fixed lens (6mm optional)
- · Max. IR length 20m, Smart IRo
- · IP67, DC12V













System Overview

Experience 1080P full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 1080P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various vari-focal/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Well-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, and CVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras

Long Distance Transmission

HDCVI technology guarantees real-time trammission at long distance without any loss. It supports up to 8004 (1080P)/1200m(720P) transmission via coaxial cable, and up to 300 h(1080P)/450m(720P) via UTP cable.*

*Actual results verified by real-scene testing in Dana's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera's designed with microcrystalline LED IR illumination for best lowlight of formance. Smart IR is a technology to ensure brightness uniform in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be witched over through OSD menu or by PFM820(UTC controller). This feature makes the camera to be compatible with not only HCVRs but also wost end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.

With working temperature range of -40°C to +60°C (-40°F to +140°F), the camera is designed for extreme temperature environments.

Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Cooper Series | DH-HAC-B1A21

Video

Resolution
Frame Rates

Video Output

Day/Night

1080P (1920×1080)

video output (Can switch)

Auto (ICR) / Manual

25/30fps@1080P, 25/30/50/60fps@720P

1-channel BNC high definition video output / CVBS

Technical Specification	n			OSD Menu	Multi-language
Camera			BLC Mode	BLC / HLC / DWDR	
Image Sensor	1/2.7" CMOS	1/2.7" CMOS		WDR	DWDR
Effective Pixels	1920(H)×1080(V), 2MP	1920(H)×1080(V), 2MP		Gain Control	AGC
Scanning System	Progressive			Noise Reduction	DWDR AGC 2D
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s			White Balance	Auto / Manual
Minimum Illumination	0.04Lux/F1.85, 30IRE, 0Lu	0.04Lux/F1.85, 30IRE, 0Lux IR on		Smart IR	Auto / Manual
S/N Ratio	More than 65dB			Certifications	
IR Distance	Up to 20m (66feet)	Up to 20m (66feet)			CE (\$\text{R}\$5032, EN55024, EN50130-4) FCE CFR 47 FCC Part 15 subpartB, ANSI C63.4-20
IR On/Off Control	Auto / Manual	Auto / Manual		Certifications	
Lens				Interface	
Lens Type	Fixed lens / Fixed iris	Fixed lens / Fixed iris		Audio Interface	N/A
Mount Type	Board-in	Board-in		Eelectrical	
Focal Length	3.6mm (6mm Optional)	3.6mm (6mm Optional)		Power Supply	12V DC ±30%
Max Aperture	F1.85	F1.85		Power Consumption	Max. 2.7W (12V DC, IR on)
Angle of View	H: 93° (54.7°)	H: 93° (54.7°)		Environmental	
Focus Control	N/A	N/A		Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% f * Start up should be done at above-40°C (-40°F)
Close Focus Distance	800mm (2000mm) 31.50" (78.74")			Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% f
DORI Distance				Ingress Protection & Vandal Resistance	IP67
Note: The DORI distance is a "ge				Construction	
pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.				Casing	Plastic
	DORI	Distance		Dimensions	70mm×70mm×149mm (2.76"×2.76"×5.87")
	Definition			Net Weight	0.14kg (0.31lb)
Detect	25px/m (8px/ft)	3:50mm: 51m(167ft) 5mm: 80m(262ft)		Gross Weight	0.17kg (0.37lb)
Observe	63px/m (19px/ft)	3.6mm: 20m(66ft) 6mm: 32m(105ft)			
Recognize	125px/m (38px/ft)	3.6mm: 10m(33ft) 6mm: 16m(51ft)			
Identify	250ppfn (76pp/ft)	3.6mm: 5m(17ft) 6mm: 8m(26ft)			
Pan / Tilt / Rotation					
Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 90°				

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-B1A21P 3.6mm	2MP HDCVI IR Bullet Camera, PAL		
	DH-HAC-B1A21P 6mm			
	DH-HAC-B1A21N 3.6mm	2MP HDCVI IR Bullet Camera,		
	DH-HAC-B1A21N 6mm	NTSC		
	PFA134	Junction box (For use alone or with PFA152-E pole mount)		
	PFA152-E	Pole mount (For use with PFA134 junction box)		
Accessories	PFM800-E	Passive HDCVI Balun		
710003301103	PFM321	12V 1A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter		
	PFM300	12V 2A Power Adapter		
	PFM820	UTC Controller		
Accessories				

Junction Mount	Pole Mount
PFA134	PFB134 + PFA152-E

Dimensions (mm/inch)

1493 [5.88"]

79.1 [3.11"]

Optional:



PFA134 Junction box



PFA152-E Pole mount



PFM800-E Passive HDCVI Balun



PFM321 12V 1A Power Adapter



PFM320D-015 Power Adapter











69.8 [2.75"]

57 [2.25"]

56.1 [2.21"] 69.7 [2.74"]