

DH-HAC-B1A51 5MP HDCVI Fixed IR Bullet Camera

HDCVI



- * The parameters and datasheets below can only be applied to A51-S2 series.
- · Max. 25 fps@5MP (16:9 video output)
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- Max. IR length 20 m, Smart IR
 IP67, DC12V



System Overview

Experience 5MP video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 5MP 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. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m for 5MP HD video via coaxial cable, and up to 300m via UTP cable.*

*Actual results verified by real-scene testing in Dahua'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 is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity 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 switched over through OSD menu. This feature makes the camera to be compatible with not only XVRs but also most 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-B1A51

Technical Specification

Camera

cumera	Callela					
Image Sensor		1/2.7" CMOS				
Max. Resolution		2880 (H) × 1620 (V)				
Pixel		5MP				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25-1/100000 s NTSC: 1/30-1/100000 s				
Min. Illumination		0.02 Lux/F2.0, 30IRE, 0 Lux IR on				
S/N Ratio		More than 65 dB				
Illumination Distance		20 m (66 feet)				
Illuminator On/Off Control		Auto;manual				
Lens						
Lens Type		Fixed lens / Fixed iris				
Mount Type		M12				
Focal Length		3.6 mm (2.8 mm Optional)				
Max Aperture		F2.0				
Angle of View		2.8 mm: 125° × 106° × 56° (diagonal × horizontal × vertical) 3.6 mm: 104° × 88° × 46° (diagonal × horizontal × vertical)				
Focus Control		N/A				
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.2 m (3.9 ft)				
DORI distance	Lens	Detect	Observe	Recognize	Identify	
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)	
	3.6mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	

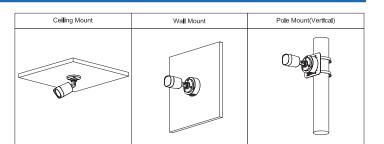
Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° – 360° Tilt: 0° – 90° Rotation: 0° – 360°	
Video		
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960H (960 × 576/960 × 480)	
Frame Rate	CVI: PAL:5M@25 fps; 4M@25 fps; 1080P@25 fps; 5M@25 fps NTSC:5M@25 fps;4M@30 fps; 1080P@30 fps; 5M@25 fps AHD: PAL:4M@25 fps; NTSC:4M@30 fps; TVI: PAL:4M@25 fps; NTSC:4M@30 fps; CVBS: 960H;	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Day/Night	Auto (ICR) / Manual	

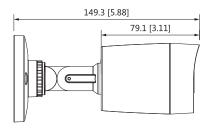
OSD Menu	Multi-language			
BLC Mode	BLC / HLC / DWDR			
WDR	DWDR			
Gain Control	AGC			
Noise Reduction	2D			
White Balance	Auto;manual			
Smart IR	Yes			
Mirror	Off/On			
Privacy Masking	Off / On (8 area, rectangle)			
Certifications				
Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)			
Interface				
Audio Interface	N/A			
Eelectrical				
Power Supply	12V DC ±30%			
Power Consumption	Max. 3.7W (12V DC, IR on)			
Environmental				
Operating Conditions	-40°C to +60°C (-40°F to +140°F) /Less than 95% RH $*$ Start up should be done at above -40°C (-40°F)			
Storage Conditions	–40°C to +60°C (–40°F to +140°F) /Less than 95% RH			
Ingress Protection & Vandal Resistance	IP67			
Construction				
Casing	Plastic			
Dimensions	69.8 mm × 69.8 mm × 149.3 mm (2.75" × 2.75" × 5.88")			
Net Weight	0.15 kg (0.33 lb)			
Gross Weight	0.25 kg (0.55 lb)			
Net Weight	0.15 kg (0.33 lb)			
GIOSS Weight	0.23 KB (0.33 IN)			

Cooper Series | DH-HAC-B1A51

Ordering Information				
Туре	Part Number	Description		
5MP Camera	DH-HAC-B1A51P 3.6mm	5MP HDCVI Fixed IR Bullet Camera, PAL		
	DH-HAC-B1A51P 2.8 mm	Sivie fibever neu in Builet Camera, FAL		
	DH-HAC-B1A51N 3.6 mm	5MP HDCVI Fixed IR Bullet Camera, NTSC		
	DH-HAC-B1A51N 2.8 mm	Sive fibever act in build camera, wise		
Accessories	PFA134	Junction Box		
	PFA152-E	Pole Mount Bracket		
	PFM800-4K	Passive Video Balun		
	PFM321	12V 1A Power Adapter		
	PFM904	Integrated Mount Tester		



Dimensions (mm/inch)





Accessories

Optional:

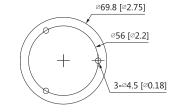


PFA134

Junction Box



PFM800-4K Pole Mount Bracket Passive Video Balun





PFM321 12V 1A Power Adapter



PFA152-E

PFM904 Integrated Mount Tester

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