

# 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.



Technical S	pecification	ı				OSD Menu	Multi-language
Camera							
Image Sensor		1/2.7" CMOS				BLC Mode	BLC / HLC / DWDR
Max. Resolution		2880 (H) × 1620 (V)				WDR	DWDR
Pixel		5MP	. ,			Gain Control	AGC
Scanning System		Progressive				Noise Reduction	2D
		PAL: 1/25–1/100000 s				White Balance	Auto;manual
Electronic Shutter Speed		NTSC: 1/30–1/100000 s				Smart IR	Yes
Min. Illumination		0.02 Lux/F2.0, 30IRE, 0 Lux IR on				Mirror	Off/On
S/N Ratio		More than 65 dB				Privacy Masking	Off / On (8 area, rectangle)
Illumination Distance		20 m (66 fee	20 m (66 feet)			Certifications	
Illuminator On/Off Control Lens		Auto;manua	al			Certifications	CE (EN55032, EN55024, EN50130-4,EN60950- EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4
Lens Type		Fixed lens / Fixed iris				Interface	, , , , , , , , , , , , , , , , , , , ,
Mount Type		M12					NI/A
Focal Length		3.6 mm (2.8	3 mm Optiona	al)		Audio Interface	N/A
Max Aperture		F2.0				Eelectrical	***************************************
axriperture		2.8 mm: 12	5° × 106° × 56			Power Supply	12V DC ±30%
Angle of View		3.6 mm: 10-	horizontal × \ 4° × 88° × 46°	,		Power Consumption	Max. 3.7W (12V DC, IR on)
Facus Combrol		(diagonal ×	horizontal × v	ertical)		Environmental	40°C + - + C0°C / 40°F + - + 140°F \ // +   0
Focus Control			m (2.6 ft)			Operating Conditions	-40°C to +60°C (-40°F to +140°F) /Less than 9. * Start up should be done at above -40°C (-40°C)
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.2 m (3.9 ft)				Storage Conditions	-40°C to +60°C (-40°F to +140°F) /Less than 9.
	Lens	Detect	Observe	Recognize	Identify	Ingress Protection & Vanc Resistance	IP67
DORI distance	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)	Construction	
	3.6mm	80 m	32 m	16 m	8 m	Casing	Plastic
Pan / Tilt / Rotation		(262.5 ft) (105.0 ft) (52.5 ft) (26.2 ft)			(26.2 Tt)	Dimensions	69.8 mm × 69.8 mm × 149.3 mm (2.75" × 2.75" × 5.88")
		Pan: 0° – 36				Net Weight	0.15 kg (0.33 lb)
Pan/Tilt/Rotation		Tilt: 0° – 90' Rotation: 0°				Gross Weight	0.25 kg (0.55 lb)
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

Day/Night

Video output choices of CVI/TVI/AHD/CVBS by one

BNC port

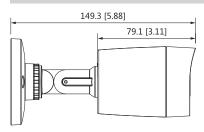
Auto (ICR) / Manual

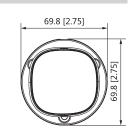
## Cooper Series | DH-HAC-B1A51

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

Ce <b>il</b> ing Mount	Wa <b>∎</b> Mount	Pole Mount(Vertical)

## Dimensions (mm/inch)





### **Accessories**

#### Optional:



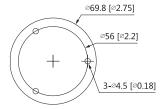
PFA134 Junction Box



PFA152-E Pole Mount Bracket



PFM800-4K Passive Video Balun





PFM321 12V 1A Power Adapter



PFM904 Integrated Mount Tester