

DH-HAC-B2A51

5MP HDCVI Fixed IR Bullet Camera

HDCVI



- $^{\star}\,$ 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
- · 3.6mm fixed lens (2.8 mm optional)
- · Max. IR length 20 m, Smart IR
- · IP67, DC12V













System Overview

Experience 5MP HD 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 $300 \mathrm{m}$ 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 ±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 Specification						OSD Menu	Multi-language
Camera						BLC Mode	BLC / HLC / DWDR
Image Sensor	1/2.7" CMC	1/2.7" CMOS				WDR	DWDR
Max. Resolution	2880 (H) × 1620 (V)					Gain Control	AGC
Pixel	5MP					Noise Reduction	2D
Scanning System	Progressive	Progressive				White Balance	Auto;manual
Electronic Shutter Speed		PAL: 1/25–1/100000 s NTSC: 1/30–1/100000 s				Smart IR	Yes
Min. Illumination	0.02 Lux/F2	0.02 Lux/F2.0, 30IRE, 0 Lux IR on				Mirror	Off/On
S/N Ratio	More than	More than 65 dB				Privacy Masking	Off / On (8 area, rectangle)
Illumination Distance	20 m (66 fe	20 m (66 feet)				Certifications	
Illuminator On/Off Control	Auto;manual					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)
Lens						Interface	
Lens Type	ens Type Fixed lens / Fixed iris					Audio Interface	N/A
Mount Type	M12					Eelectrical	.471
Focal Length	3.6 mm (2.8	3 mm Optiona	1)			Power Supply	12V DC ±30%
Max Aperture	F2.0					Power Consumption	
2.8 mm: $125^{\circ} \times 106^{\circ} \times 56^{\circ}$ (diagonal × horizontal × vertical) 3.6 mm: $104^{\circ} \times 88^{\circ} \times 46^{\circ}$						Environmental	Max. 3.7W (12V DC, IR on)
	(diagonal × horizontal × vertical)					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)
Focus Control	N/A 2.8 mm: 0.8 m (2.6 ft)					Storage Conditions	-40°C to +60°C (-40°F to +140°F) /Less than 95% RH
Close Focus Distance	2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.2 m (3.9 ft)				Ingress Protection & Vandal	IP67	
Lens	Detect Observe Recognize Ide	Identify		Resistance			
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	Aluminium
3.6mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)		Casing Dimensions	70.1 mm × 70.1 mm × 157.6 mm
Pan / Tilt / Rotation							(2.76" × 2.76" × 6.21")
	D 00 04					Net Weight	0.24 kg (0.53 lb)
Pan: 0° – 360° Pan/Tilt/Rotation Tilt: 0° – 90° Rotation: 0° – 360°						Gross Weight	0.34 kg (0.75 lb)
Video							

5M(2880×1620);4M(2560×1440) 1080P (1920 × 1080); 960H (960 × 576/960 × 480)

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

PAL:5M@25 fps; 4M@25fps; 1080P@25fps NTSC:5M@25 fps; 4M@30fps; 1080P@30fps

AHD:

TVI:

CVBS: 960H;

BNC port

PAL:4M@25 fps; NTSC:4M@30 fps;

PAL:4M@25 fps; NTSC:4M@30 fps;

Auto (ICR) / Manual

Resolution

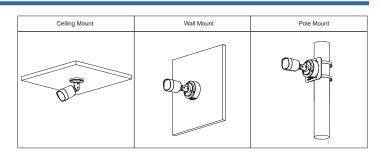
Frame Rate

Video Output

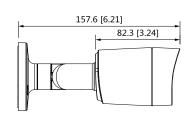
Day/Night

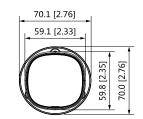
Cooper Series | DH-HAC-B2A51

Ordering Information						
Туре	Part Number	Description				
5MP Camera	DH-HAC-B2A51P 2.8 mm	5MP HDCVI Fixed IR Bullet Camera, PAL				
	DH-HAC-B2A51P 3.6 mm					
	DH-HAC-B2A51N 2.8 mm	5MP HDCVI Fixed IR Bullet Camera, NTSC				
	DH-HAC-B2A51N 3.6 mm	Sivil Tibevittised in Bullet Califera, N13C				
Accessories	PFA134	Junction Box				
	PFA152-E	Water-proof Junction Box+Pole Mount Bracket				
	PFM800-4K	Passive Video Balun				
	PFM321	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				



Dimensions (mm/inch)





Accessories

Optional:



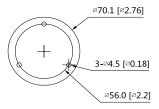
PFA134 Junction Box



PFA152-E Pole Mount Bracket



PFM800-4K Passive Video Balun





12V 1A Power Adapter



PFM904 Integrated Mount Tester