

DH-HAC-B3A51-Z

5MP HDCVI IR Bullet Camera



- * 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
- · 2.7 mm-12 mm motorized lens
- · Max. IR length 40 m; Smart IR
- · IP67; DC12V













System Overview

Experience 5MP full HD video and the simplicity of using existing cabling infrastructure with HDCVI. The Lite series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various motorized/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance make 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 XVR, 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 700 m for 5MP HD video via coaxial cable, and up to 300 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 IR LED illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua 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 compatible with 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 -30°C to $+60^{\circ}\text{C}$ (-22°F to $+140^{\circ}\text{F}$), the camera is designed for extreme temperature environments. Supporting $\pm30\%$ 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						White Balance		Auto; manual		
Camera						Gain Control		Auto; manual		
Image Sensor		1/2.7 inch CMOS				Noise Reduction		2D NR		
Max. Resolution		2880 (H) × 1	620 (V)			Smart IR		Yes		
Pixel		5MP				Mirror		Off/On		
Scanning System		Progressive				Privacy Mask	Privacy Masking Off/On (8 areas; rectangle)			
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Certifications				
S/N Ratio		> 65 dB				Certifications		CE (EN55032:2015, EN61000-3-2:2014, EN61000-3-3:2013, 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)		
Min. Illumination		0.01 Lux/F1.6; 30IRE; 0 Lux IR on								
Illumination Distance		40 m (131.2	ft)			Port				
Illuminator Or	•	Auto; manua	al			Video Output		Video ou BNC por	utput choices of CVI/TVI/AHD/CVBS by one	
Illuminator Number		2				Power				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Power Supply		DC 12V ±	±30%	
Lens			notation of Sec				Power Consumption		Max 6.6W (12V DC; IR on)	
Lens Type		Motorized vari-focal				Environment				
Auto Focus		N/A				Operating Temperature			o +60°C (–22°F to +140°F) on-condensation)	
Mount Type		Ф14				Storage Temperature			o +60°C (–22°F to +140°F) on-condensation)	
Focal Length		2.7 mm-12 r	mm			Protection Grade		IP67		
Max. Aperture		F1.6	. 1200			Structure				
Field of View		Diagonal: 39 Horizontal: 3 Vertical: 19°	34°–107°			Casing		Mental front cover+plastic main body+plastic bracket		
Iris Type		Fixed iris				Camera Dimensions		243.5 mr	m × 90.7 mm × 90.7 mm (9.59" × 3.57" × 3.57")	
Close Focus Distance		0.5 m (1.64 ft)				Net Weight		0.39 kg (0.86 lb)	
DORI Distance		Detect	Observe	Recognize	Identify	Gross Weight		0.61 kg (1.34 lb)		
	2.7 mm	69 m (226.37 ft)	27.6 m (90.55 ft)	13.8 m (45.27 ft)	6.9 m (22.63 ft)					
	12 mm	191.6 m	76.64 m	38.32 m	19.16 m	Ordering Information				
		(628.6 ft)	(251.44 ft)	(125.72 ft)	(62.86 ft)	Type	Part Number		Description	

Video					
Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 4M@25 fps NTSC: 4M@30 fps CVBS: PAL: 960H NTSC: 960H				
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)				
Day/Night	Auto switch by ICR				
BLC	BLC/HLC/DWDR				
WDR	DWDR				

Ordering Information								
Туре	Part Number	Description						
5MP Camera	DH-HAC-B3A51P-Z 2.7–12 mm	5MP HDCVLIR Bullet Camera						
SIMP Calliela	DH-HAC-B3A51N-Z 2.7–12 mm	Sin Tibe Ville Build Camera						
	PFA13G	Junction Box						
	PFA130-E	IP66 Junction box (For use alone or with PFA152-E pole mount)						
	PFA152-E	Pole Mount Bracket (For use with PFB211W)						
Accessories	PFM800-4K	Passive HDCVI Balun						
	PFM321D	12V 1A Power Adapter						
	PFM320D-015	12V 1.5A Power Adapter						
	PFM904	Integrated Mount Tester						

Accessories

Optional:



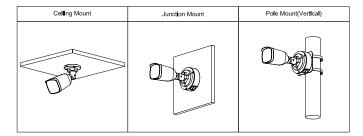
PFA13G Junction Box



PFA130-E IP66 Junction box (For use alone or with PFA152-E pole mount)



PFA152-E Pole Mount Bracket (For use with PFB211W)





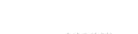
PFM800-4K Passive HDCVI Balun



PFM321D 12V 1A Power Adapter

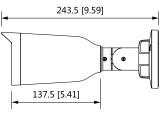


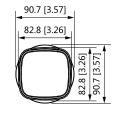
PFM320D-015 12V 1.5A Power Adapter

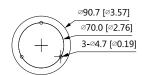


Dimensions (mm [inch])

Installation









PFM904 Integrated Mount Tester