

DH-HAC-B3A51-Z

5MP HDCVI IR Bullet Camera



- * The parameters and datasheets below can only be applied to A51-S2 series.
- * In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.000001.0.R.200908 or later version.
- · 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.

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Technical Specification					White Balance		Auto; manual		
Camera						Gain Control		Auto; manual	
Image Sensor		1/2.7 inch CMOS				Noise Reduction		2D NR	
Max. Resoluti	on	2880 (H) × 1620 (V)				Smart IR		Yes	
Pixel		5MP				Mirror	Mirror Off/On		
Scanning Syst	em	Progressive				Privacy Maski	Privacy Masking Off/On (8 areas; rectangle)		
Electronic Shu	utter 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 D	Distance	40 m (131.2 ft)				Port			
Illuminator Or	n/Off Control	Auto; manual				Video Output			itput choices of CVI/TVI/AHD/CVBS by one
Illuminator Number		2				. BNC port			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Power Supply DC 12V ±30%			
Laws		Rotation: 0°–360°				Power Supply			
Lens						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				Structure			
Field of View		Diagonal: 39 Horizontal: 3 Vertical: 19°	34°–107°			Casing		Metal front cover+plastic main body+plastic bracket	
Iris Type		Fixed iris				Camera Dimensions		243.5 mi	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)	Туре	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 HDCVI IR Bullet Camera						
Sivir Calliera	DH-HAC-B3A51N-Z 2.7–12 mm							
	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:



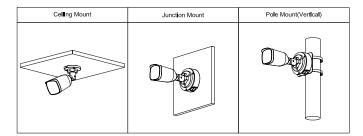
PFA13G Junction Box



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



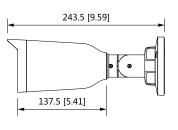
PFM321D 12V 1A Power Adapter

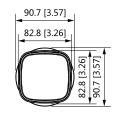


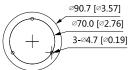
PFM320D-015 12V 1.5A Power Adapter

Dimensions (mm [inch])

Installation









PFM904 Integrated Mount Tester