

DH-HAC-T3A51-Z

5MP HDCVI IR Eyeball 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 V4.001.0000001.0.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

lightning.

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

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) × 1620 (V)				Smart IR	Yes	
Pixel		5MP				Mirror	Off/On	
Scanning System		Progressive				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					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			6; 30IRE; 0 Lux	IR on		Certifications		
Illumination Distance		40 m (131.2				Port		
Illuminator On/Off Control Illuminator Number		Auto; manua	àl			Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Day /Tilt /Datation Days		Pan: 0°–360° Tilt: 0°–78°				Power		
rany mity Nota	Pan/Tilt/Rotation Range		-360°			Power Supply	DC 12V ±30%	
Lens						Power Consumption	Max 6.6W (12V DC, IR on)	
Lens Type		Motorized va	ari-focal			Environment		
Auto Focus		N/A Φ14				Operating Temperature	-30°C to +60°C (-22°F to +140°F) < 95% (non-condensation)	
Mount Type Focal Length		Φ14 2.7 mm–12 r	nm			Storage Temperature	-30°C to +60°C (−22°F to +140°F) < 95% (non-condensation)	
Max. Aperture		F1.6				Protection Grade	IP67	
Field of View		Diagonal: 39 Horizontal: 3				Structure		
Field of View		Vertical: 19°-				Casing	Plastic dome cover+metal upper cover+plastic lower dome	
Iris Type		Fixed iris				Camera Dimensions	Φ122 mm × 106.2 mm (Φ 4.80" × 4.18")	
Close Focus D	istance	0.5 m (1.64 ft)				Net Weight	0.38 kg (0.84 lb)	
DORI Distance		Detect	Observe	Recognize	Identify	Gross Weight	0.51 kg (1.12 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 (628.6 ft)	76.64 m (251.44 ft)	38.32 m (125.72 ft)	19.16 m (62.86 ft)	Ordering Information		
Video								

	(020.0 10) (231.44 10) (123.72 10) (02.00 10)	Ordering Ir	ntormation	
Video		Туре	Part Number	Description
	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD:	5MP Camera	DH-HAC-T3A51P-Z 2.7–12 mm	5MP HDCVI IR Eyeball Camera
Frame Rate	PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 4M@25 fps NTSC: 4M@30 fps CVB5:		DH-HAC-T3A51N-Z 2.7–12 mm	
		Accessories	PFA137	Junction Box
	PAL: 960H NTSC: 960H		PFA130-E	IP66 Junction Box
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)		PFB205W	Wall Mount Bracket (For use alone or with PFA152-E)
Day/Night	Auto switch by ICR		PFA152-E	Pole Mount Bracket (For use with PFB205W)
BLC	BLC/HLC/DWDR		PFA106	Mount Adapter (For use with PFB220C)
WDR	DWDR		PFB220C	Ceiling Mount Bracket (For use with PFA106)

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PFM800-4K	Passive HDCVI Balun		
PFM321D	12V 1A Power Adapter		
PFM320D-015	12V 1.5A Power Adapter		
PFM904	Integrated Mount Tester		

Accessories

Optional:



PFA137 Junction Box



PFA130-E IP66 Junction Box



PFB205W Wall Mount Bracket (For use alone or with PFA152-E)



PFA152-E Pole Mount Bracket (For use with PFB205W)



PFA106 Mount Adapter (For use with PFB220C)



PFB220C Ceiling Mount Bracket (For use with PFA106)



PFM800-4K Passive HDCVI Balun

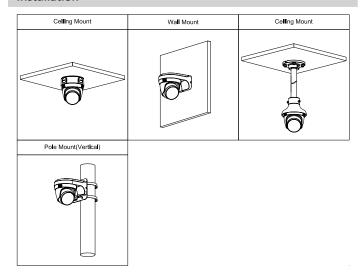


PFM321D 12V 1A Power Adapter

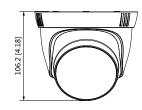


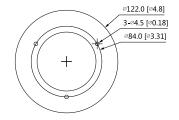
PFM320D-015 12V 1.5A Power Adapter

Installation



Dimensions (mm [inch])







PFM904 Integrated Mount Tester