

DH-HAC-T1A51-A-IL

5MP Smart Dual Light HDCVI Fixed-focal Quick-to-install Eyeball Camera



System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

Functions

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to

- * The parameters and datasheets below can only be applied to 1500-IL 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).
- · Smart Dual Light.
- · 20 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · Quick-to-install eyeball saves installation time.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.















perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the simplicity of traditional analog surveillance systems, making it a great mechanism for protecting your valuables. HDCVI can be upgraded from the traditional analog system without replacing the existing coaxial cabling. Its plug and play design enables it to produce high-definition videos during surveillance without the hassle of configuring a network.

Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Easy Installation

The camera comes with an easy-to-install eyeball and pedestal, that cuts down on installation time and cost, outranking conventional eyeballs.

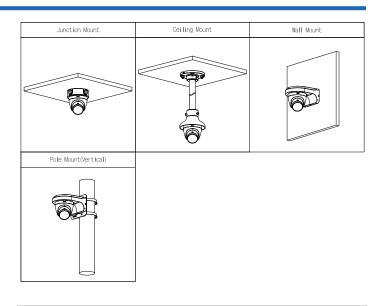
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Technical Specification					Gain Control	Auto/Manual	
Camera						Noise Reduction	2D NR
Image Sensor		5 MP CMOS				Illumination Mode	Smart IR&WL WL Mode; IR Mode
Max. Resolution		2880 (H) × 1620 (V)				Mirror	Yes
Scanning System		Progressive				Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Certification	
Min. Illumination		0.05 lux@F1.6 (Color, 30 IRE) 0.005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B
S/N Ratio		>65 dB				Port	
Illumination Distance		IR: 20 m (65.62 ft) Warm Light: 20 m (65.62 ft)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator On/Off Control		Auto/Manual				Audio Input	One channel built-in mic
Illuminator Number		2 (Warm light);2 (IR light)				Power	
Angle Adjustment		Pan: 0°–360°				Power Supply	12 VDC ± 30%
		Tilt: 0°-78° Rotation: 0°-360°				Power Consumption	Max 4.5 W (12 VDC, WLED on)
Lens						Environment	
Lens Type		Fixed-focal				Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Lens Mount		M12				Operating Humidity	<95% (RH), non-condensing
Focal Length		2.8 mm; 3.6 mm				Storage Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Max. Aperture		F1.6				Storage Humidity	<95% (RH), non-condensing
Field of View		2.8 mm: H: 106°; V: 56°; D: 125°				Protection	IP67
Iris Control		3.6 mm: H: 92°; V: 48°; D: 109° Fixed				Structure	
		2.8 mm: 0.8 m (2.62 ft)				Casing Material	Plastic
Close Focus Distance		3.6 mm: 1.3 m (4.27 ft)				Product Dimensions	ф97.1 mm × 93.8 mm (ф3.82" × 3.69")
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.19 kg (0.42 lb)
	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	Gross Weight	0.3 kg (0.66 lb)
	3.6 mm	76 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)	Installation	Wall mount; ceiling mount; vertical pole mount
Video							

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(ICR)/Color/B/W	
BLC	BLC; HLC; DWDR;	
WDR	DWDR	
White Balance	Auto;Area white balance	

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Ordering Information							
Туре	Model	Description					
5NA Carrage	DH-HAC-T1A51-A-IL	5MP Smart Dual Light HDCVI Fixed-focal Quick-to-install Eyeball Camera, PAL					
5M Camera	DH-HAC-T1A51-A-IL	5MP Smart Dual Light HDCVI Fixed-focal Quick-to-install Eyeball Camera, NTSC					
	PFA13G	Junction Box					
	PFB205W-E	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA109	Mount Adapter					
(Optional)	PFB220C	Ceiling Mount Bracket					
	PFM800-4K	1-CH Passive Video Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					



Ø70.0 [Ø2.76]

Ø97.1 [Ø3.82] 3-ø4.5 [ø0.18]×5.5 [ø0.22]

Dimensions (mm [inch])

Accessories

Optional:



PFA13G Junction Box



PFB205W-E Wall Mount Bracket



Pole Mount Bracket



PFA109



PFB220C Ceiling Mount Bracket



PFM800-4K 1 Channel Passive HDCVI Balun





PFM321D 12V 1A Power Adapter

Rev 002.000

PFM904 Integrated Mount Tester