

DH-HAC-T2A51-U-IL-A

5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



Series Overview

The Cooper Series offers simple and highly cost-effective HDCVI solutions. It provides 24/7 reliable monitoring with high-quality image performance, saving cost on both material and labor force. It is also designed and built to the specific standards of Dahua.

Functions

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.

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.

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 ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

- * The parameters and datasheets below can only be applied to A51-U-IL-S2 series.
 * In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- · Max 25 fps@5MP (16:9 video output)
- · Smart Dual Light.
- · 30 m illumination distance.
- · Built-in Mic
- · 3.6 mm fixed lens (2.8 mm; 6mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.















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 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.

Multiple Formats

The camera supports videos in HDCVI, CVBS, TVI and AHD formats. The DIP switch on the cable allows you to quickly change formats through simple installation and debugging procedures. This feature makes the camera compatible with both XVRs and HD/SD XVRs.

* The DIP Switch is available for select HDCVI camera models.

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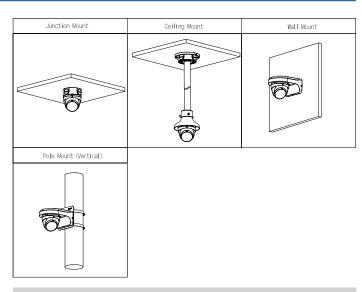
PAL: 4M@25 fps; NTSC: 4M@30 fps

CVBS: PAL: 960H; NTSC: 960H

Technical Specification							Resolution	5M (2880 × 1620); 4M (2560 × 1440);
Camera								1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Image Sensor		5 MP CMOS					Day/Night	Auto(ICR)/Color/B/W
Max. Resolution		2880 (H) × 1620 (V)					BLC	BLC; HLC; DWDR;
Scanning System		Progressive					WDR	DWDR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					White Balance	Auto;Area white balance
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Gain Control	Auto
S/N Ratio		>65 dB					Noise Reduction	2D NR
		IR: 30 m (98.43 ft);					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Illumination Distance		Warm Light: 20 m (65.62 ft)					Mirror	Yes
Illuminator On/Off Control		Auto;Manual					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator Number		2 (Warm light);2 (IR light)					Certification	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Lens		Notation: 0 300					Port	
Lens Type		Fixed-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Auto Focus		No					Audio Input	One channel built-in Mic
Lens Mount		M12					Power	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Power Supply	12 VDC ± 30%
Max. Aperture		F2.0					Power Consumption	Max 4.0 W (12V DC, WLED on)
		2.8 mm: H: 106°; V: 56°; D: 125°					Environment	
Field of View		3.6 mm: H: 92°; V: 48°; D: 109° 6 mm: H: 54°; V: 29°; D: 62°					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed					Operating Humidity	<95% (RH), non-condensing
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft) 6 mm: 2.8 m (9.19 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Long			Dogganiza	Idontifu		Storage Humidity	<95% (RH), non-condensing
	Lens	Detect	Observe 26.4 m	Recognize	Identify 6.6 m		Protection	IP67
	2.8 mm	66.0 m (216.54 ft)	(86.61 ft)	13.2 m (43.31 ft)	(21.65 ft)		Anti-corrosion Level	Basic Protection
	3.6 mm	76.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)		Structure	
DORI Distance	6 mm	120.0 m (393.70 ft)	48.0 m (157.48 ft)	24.0 m (78.74 ft)	12.0 m (39.37 ft)		Casing Material	Metal
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Product Dimensions	Φ94.0 mm × 77.9 mm (Φ3.70" × 3.07")
							Net Weight	0.30 kg (0.66 lb)
							Gross Weight	0.36 kg (0.79 lb)
Video							Installation	Wall mount; ceiling mount; vertical pole mount
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;						

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Ordering Information						
Туре	Model	Description				
5MP	DH-HAC-T2A51P-U-IL-A	5MP Smart Dual Light HDCVI Fixed- focal Eyeball Camera, PAL				
Camera	DH-HAC-T2A51N-U-IL-A	5MP Smart Dual Light HDCVI Fixed- focal Eyeball Camera, NTSC				
	PFA13A-E	Junction Box				
	PFB205W-E	Wall Mount Bracket				
	PFA152-E	Pole Mount Bracket				
Accessories	PFA106	Adapter Plate of Mini Dome & Eyeball Camera				
(Optional)	PFB220C	Ceiling Mount Bracket				
	PFM800-4K	1-CH Passive Video Balun				
	PFM321D	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				



Dimensions (mm[inch])

Accessories

Optional:



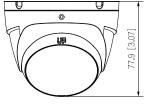
PFA13A-E Junction Box

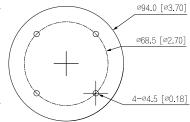


PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket







PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFB220C Ceiling Mount Bracket



PFM800-4K 1-CH Passive Video Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester