

DH-HAC-T2A51-U

5MP IR 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 IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

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 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.

 $\mbox{\ensuremath{*}}$ Audio input is available for select HDCVI camera models.

- * The parameters and datasheets below can only be applied to A51-S3 series.
- · Max 25 fps@5MP (16:9 video output)
- · Smart IR Illumination.
- · 30 m illumination distance.
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













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

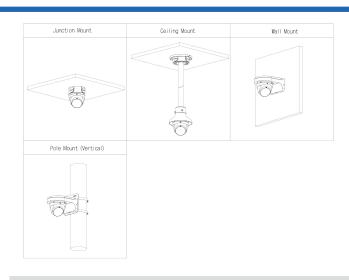
The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian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

Technical Specification							Video Frame Rate	CVBS: PAL: 960H NTSC: 960H	
Camera							video Trame Nate		
Image Sensor		5 MP CMOS					Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480); TVI 5M 16:9 (2960 × 1665)	
Max. Resolution		2880 (H) × 1620 (V)							
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					BLC	BLC; HLC; WDR	
		0.02 lux@F2.0 (Color, 30 IRE)					WDR	DWDR	
Min. Illumination		0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					White Balance	Auto;Area white balance	
S/N Ratio		>65 dB					Gain Control	Auto	
Illumination Distance		IR: 30 m (98.43 ft)					Noise Reduction	2D NR	
Illuminator On/Off Control		Auto/Manual					Illumination Mode	Smart IR	
Illuminator No	umber	3 (IR light)					Mirror	Yes	
		Pan: 0°–360°					Privacy Masking	Off/On (8 areas, rectangle)	
Angle Adjustment		Tilt: 0°-78°					Certification		
Lens		Rotation: 0°–360°					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;	
Lens Type		Fixed-focal					Port		
Lens Mount		M12					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)	
Focal Length		2.8 mm; 3.6 mm; 6 mm					Power		
Max. Aperture		F2.0					Power Supply	12 VDC (±30%)	
Field of View		2.8 mm: H: 105.5°; V: 56.5°; D: 125.3° 3.6 mm: H: 86°; V: 46.1°; D: 104.3°					Power Consumption	Max 3.5 W (12 VDC, IR on)	
	ricia of view		6 mm: H: 53.9°; V: 30.7°; D: 62.1°				Environment		
Close Focus D	istance	2.8 mm: 1.0 m (3.28 ft)					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Close Focus Distance		3.6 mm: 1.4 m (4.59 ft) 6 mm: 2.6 m (8.53 ft)					Operating Humidity	<95% (RH), non-condensing	
	Lens	Detect	Observe	Recognize	Identify		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Storage Humidity	<95% (RH), non-condensing	
	3.6 mm	79.4 m	31.8 m	15.9 m	7.9 m		Protection	IP67	
	3.0 111111	(260.50 ft)	(104.33 ft)	(52.17 ft)	(25.92 ft)		Anti-corrosion Level	Basic Protection	
DORI Distance	6 mm	118 m (387.14 ft)	47.2 m (154.86 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)		Structure		
	*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.						Casing Material	Metal	
							Product Dimensions	Ф94.0 mm × 77.9 mm (Ф3.70" × 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	

	CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps	Ordering Information			
	NTSC: 5M@25 fps; 5M@20 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps	Type	Model	Description	
Video Frame Rate	AHD: PAL: 4M@25 fps NTSC: 4M@30 fps	HDCVI CAMERA	DH-HAC-T2A51N-U	5MP IR HDCVI Fixed-focal Eyeball Camera,NTSC	
	TVI: PAL: 5M 16:9@20 fps NTSC: 5M 16:9@20 fps	HIDEVI CAIVIENA	DH-HAC-T2A51P-U	5MP IR HDCVI Fixed-focal Eyeball Camera,PAL	

Cooper Series | DH-HAC-T2A51-U

Туре	Model	Description
	DH-PFA106	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA151	Corner Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB2204W	Wall Mount Bracket
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
	DH-PFA13A-E	Junction Box
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])

Accessories

Optional:



DH-PFA106 Mount Adapter



DH-PFA13A-E Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFB2204W Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester



