

DH-HAC-T1A51-U-A

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.

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.

* 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).
- · Smart IR Illumination.
- · 25 m illumination distance.
- \cdot Built-in Mic.
- · Quick-to-install eyeball saves installation time.
- · 2.8 mm fixed lens (3.6 mm optional).
- \cdot CVI/CVBS/AHD/TVI switchable.



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.

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.

Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

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Technical Specification							White Balance	Auto;Area white balance
Camera							Gain Control	Auto;Manual
Image Sensor		5 MP CMOS					Noise Reduction	2D NR
Max. Resolution		2880 (H) × 1620 (V)					Illumination Mode	Smart IR
Scanning System		Progressive					Mirror	Yes
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Privacy Masking	Off/On (8 areas, rectangle)
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Certification	
							Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
S/N Ratio		>65 dB					Port	
Illumination Distance		25 m (82.02 ft)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Illuminator On/Off Control		Auto;Manual					·	port
Illuminator Number		2 (IR light)					Audio Input	One channel built-in Mic
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Power	
							Power Supply	12 VDC ± 30%
Lens							Power Consumption	Max 2.7 W (12 VDC, IR on)
Lens Type		Fixed-focal					Environment	
Lens Mount		M12					Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Focal Length		2.8 mm; 3.6 mm					Operating Humidity	<95% (RH), non-condensing
Max. Aperture		F2.0					Storage Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Field of View		2.8 mm: H: 106°; V: 56°; D: 125°					Storage Humidity	<95% (RH), non-condensing
		3.6 mm: H: 92°; V: 48°; D: 109° Fixed					Anti-corrosion Level	Basic Protection
Iris Control		2.8 mm: 1.0 m (3.28 ft)					Structure	
Close Focus Distance		3.6 mm: 1.3 m (4.27 ft)					Casing Material	Plastic
L	.ens	Detect	Observe	Recognize	Identify		Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
DORI 2 Distance	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)		Net Weight	0.11 kg (0.24 lb)
	8.6 mm	76.0 m	30.4 m	15.2 m	7.6 m		Gross Weight	0.12 kg (0.26 lb)
Video		(249.34 ft) (99.74 ft) (49.87 ft) (24.93 ft)					Installation	Wall mount; ceiling mount

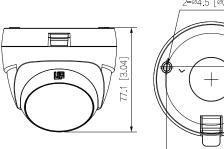
Video

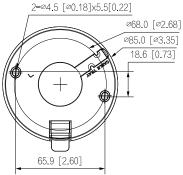
Video Frame Rate	CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR
WDR	DWDR

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Ordering Information							
Туре	Model	Description					
5MP	DH-HAC-T1A51P-U-A	5MP IR HDCVI Fixed-focal Eyeball Camera, PAL					
Camera	DH-HAC-T1A51N-U-A	5MP IR HDCVI Fixed-focal Eyeball Camera, NTSC					
	PFA12C	Plastic Junction Box					
Accessories	PFM321D	12V 1A Power Adapter					
(Optional)	PFM800-4K	1-CH Passive Video Balun					
	PFM904	Integrated Mount Tester					

Dimensions (mm[inch])





Accessories

Optional:



PFA12C Plastic Junction Box



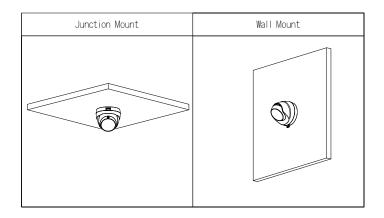
PFM321D 12V 1A Power Adapter



PFM800-4K 1-CH Passive Video Balun



PFM904 Integrated Mount Tester



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