

DH-HAC-T1A21-U-IL-A

2MP 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.

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.

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.

- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- · Max. 30 fps@1080p.
- · Smart Dual Light.
- · 25 m illumination distance.
- · Built-in MIC
- · Quick-to-install eyeball saves installation time.
- \cdot 2.8 mm fixed lens (3.6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.













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.

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Technical Specification							BLC	BLC; HLC; DWDR
Camera							WDR	DWDR
Image Sensor		2 MP CMOS					White Balance	Auto;Area white balance
Max. Resolution		1920 (H) × 1080 (V)					Gain Control	Auto;Manual
Scanning System		Progressive					Noise Reduction	2D NR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Mirror Privacy Masking	Yes Off/On (8 areas, rectangle)
S/N Ratio		>65 dB					Certification	, , , , , , , , , , , , , , , , , , , ,
Illumination Distance		IR: 25 m (82.02 ft); Warm light: 20 m (65.62 ft)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illuminator On/Off Control		Auto;Manual					Port	
Illuminator Number		2 (Warm light);2 (IR light)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Angle Adjust	Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Audio Input	One channel built-in Mic
							Power	
Lens							Power Supply	12 VDC ± 30%
Lens Type		Fixed-focal					Power Consumption	Max 2.1 W (12 VDC, LED on)
Lens Mount		M12					Environment	
Focal Length		2.8 mm;3.6 mm					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F2.0					Operating Humidity	<95% (RH), non-condensing
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94°					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed					Storage Humidity	<95% (RH), non-condensing
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)					Anti-corrosion Level	Basic Protection
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Structure	
	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m		Casing Material	Plastic
		(146.65 ft) 55.0 m	(58.73 ft) 22.0 m	(29.20 ft) 11.0 m	(14.76 ft) 5.5 m		Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
	3.6 mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(18.04 ft)		Net Weight	0.11 kg (0.24 lb)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to						Gross Weight	0.12 kg (0.26 lb)
	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/						Installation	Wall mount; ceiling mount
	project design tool.							

Video

Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H		
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)		
Day/Night	Auto(ICR)/Color/B/W		

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Ordering Information							
Туре	Model	Description					
2MP	DH-HAC-T1A21P-U-IL-A	2MP Smart Dual Light HDCVI Fixed- focal Eyeball Camera, PAL					
Camera	DH-HAC-T1A21N-U-IL-A	2MP Smart Dual Light HDCVI Fixed- focal Eyeball Camera, NTSC					
	PFA12C	Plastic Junction Box					
Accessories	PFM321D	12V 1A Power Adapter					
(Optional)	PFM800-E	Passive HDCVI Balun					
	PFM904	Integrated Mount Tester					

Accessories

Optional:



PFA12C Plastic Junction Box



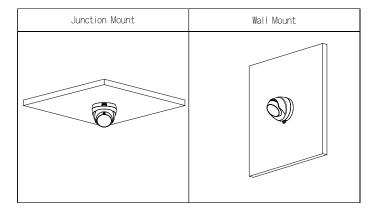
PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

