

DH-HAC-T1A21-U-IL

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.

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.

- * 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.
- · Quick-to-install eyeball saves installation time.
- \cdot 2.8 mm fixed lens (3.6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.



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.

Cooper Series | DH-HAC-T1A21-U-IL

Technical Specification							BLC	BLC; HLC; DWDR
Camera							WDR	DWDR
Image Senso	or	2 MP CMOS					White Balance	Auto;Area white ba
Max. Resolu	ition	1920 (H) × 1080 (V)					Gain Control	Auto;Manual
Scanning Sy	stem	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
Min. Illumin	ation	0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Mirror Privacy Masking	Yes Off/On (8 areas, re
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- CE-EMC: EN 55032
Illuminator On/Off Control							Port	
Illuminator Number		2 (Warm light);2 (IR light)					Video Output	Video output choic
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Power	port
Lana		Kolation: 0 -500					Power Supply	12 VDC ± 30%
Lens							Power Consumption	Max 2.1 W (12 VD0
Lens Type		Fixed-focal					Environment	
Lens Mount		M12					Operating Temperature	-40 °C to +60 °C (-
Focal Length		2.8 mm; 3.6 mm					Operating Humidity	<95% (RH), non-co
Max. Aperture		F2.0					Storage Temperature	-40 °C to +60 °C (-
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94°					Storage Humidity	<95% (RH), non-co
Iris Control		Fixed					Anti-corrosion Level	Basic Protection
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)					Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Casing Material	Plastic
	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m		Product Dimensions	Ф85.0 mm × 77.1 г
		(146.65 ft) 55.0 m	(58.73 ft) 22.0 m	(29.20 ft) 11.0 m	(14.76 ft) 5.5 m		Net Weight	0.11 kg (0.24 lb)
	3.6 mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(18.04 ft)		Gross Weight	0.12 kg (0.26 lb)
	*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.						Installation	Wall mount; ceiling

Video

project design tool.

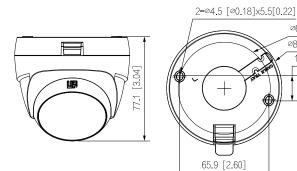
Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H		
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)		
Day/Night	Auto(ICR)/Color/B/W		

W DR	DWDN
White Balance	Auto;Area white balance
Gain Control	Auto;Manual
Noise Reduction	2D NR
Illumination Mode	Smart IR&WL WL Mode; IR Mode
Mirror	Yes
Privacy Masking	Off/On (8 areas, rectangle)
Certification	
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12 VDC ± 30%
Power Consumption	Max 2.1 W (12 VDC, LED on)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	<95% (RH), non-condensing
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	<95% (RH), non-condensing
Anti-corrosion Level	Basic Protection
Structure	
Casing Material	Plastic
Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
Net Weight	0.11 kg (0.24 lb)
Gross Weight	0.12 kg (0.26 lb)
Installation	Wall mount; ceiling mount

Cooper Series | DH-HAC-T1A21-U-IL

Ordering Information						
Туре	Model	Description				
2MP	DH-HAC-T1A21P-U-IL	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL				
Camera	DH-HAC-T1A21N-U-IL	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				

Dimensions (mm[inch])



ø68.0 [ø2.68] ø85.0 [ø3.35]

18.6 [0.73]

Accessories

Optional:



PFA12C Plastic Junction Box



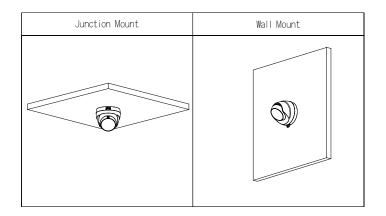
PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



Rev 002.000 © 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product.