

DH-HAC-T1A21-U-A

2MP Smart IR HDCVI Fixed-focal Eyeball Camera



· Max. 30 fps@1080p.

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



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.

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.

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.

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

Technical Specification

Camera

Camera						
Image Sensor		2 MP CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s				
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination Distance		IR: 25 m (82.02 ft);				
Illuminator On/Off Control		Auto;Manual				
Illuminator Number		IR light				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens	Lens					
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm;3.6 mm				
Max. Apertu	re	F2.0				
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	2.8 mm	44.7 m (146.65 ft)	17.9 m (58.73 ft)	8.9 m (29.20 ft)	4.5 m (14.76 ft)	
	3.6 mm	55.0 m (180.45 ft)	22.0 m (72.18 ft)	11.0 m (36.09 ft)	5.5 m (18.04 ft)	

Gain Control	Auto;Manual		
Noise Reduction	2D NR		
Illumination Mode	Smart 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		
Audio Input	One channel built-in Mic		
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		

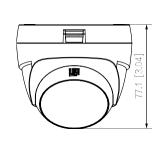
Video

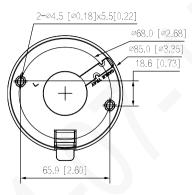
Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR
WDR	DWDR
White Balance	Auto;Area white balance

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

Dimensions (mm[inch])





Accessories

Optional:



PFA12C Plastic Junction Box



PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester

Junction Mount	Wall Mount	
- For		

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