

# 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.
- · 2.8 mm fixed lens (3.6 mm optional).
- · 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.

## ooner Series | DH-HAC-T1A21-II-A

Resolution

Day/Night

White Balance

BLC WDR PAL: 960H NTSC: 960H

DWDR

Auto(ICR)/Color/B/W BLC; HLC; DWDR

Auto;Area white balance

1080p (1920 × 1080); 960H (960 × 576/960 × 480)

Cooper	Series	DH-HAC	-T1A21	-U-A				
Technical Specification							Gain Control	Auto;Manual
Camera							Noise Reduction	2D NR
Image Senso	or	2 MP CMOS				Illumination Mode	Smart IR Mode	
Max. Resolu	tion	1920 (H) × 1080 (V)				Mirror	Yes	
Scanning System		Progressive					Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Certification	
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
S/N Ratio	S/N Ratio		>65 dB				Port	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Illumination Distance		IR: 25 m (82.02 ft);					Video Output	port
	Illuminator On/Off Control						Audio Input	One channel built-in Mic
Illuminator Number		Auto;Manual					Power	
mummator Number		IR light Pan: 0°–360°					Power Supply	12 VDC ± 30%
Angle Adjust	Angle Adjustment		260°				Power Consumption	Max 2.1 W (12 VDC, LED on)
Long			Rotation: 0°–360°				Environment	
Lens		Final family					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens Type		Fixed-focal					Operating Humidity	<95% (RH), non-condensing
Lens Mount		M12					Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Focal Length		2.8 mm;3.6 mm					Storage Humidity	<95% (RH), non-condensing
Max. Aperture		F2.0					Anti-corrosion Level	Basic Protection
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94°					Structure	
Iris Control		Fixed					Casing Material	Plastic
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)					Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
	Lens	Detect	Observe	Recognize	Identify		Net Weight	0.11 kg (0.24 lb)
DORI Distance	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m	'6 ft)	Gross Weight	0.12 kg (0.26 lb)
		(146.65 ft) 55.0 m	(58.73 ft) 22.0 m	(29.20 ft) 11.0 m	(14.76 ft) 5.5 m		Installation	Wall mount; ceiling mount
	3.6 mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(18.04 ft)			
Video	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						

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

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



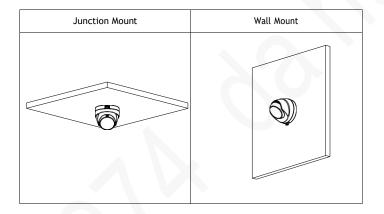
PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



## Dimensions (mm[inch])

