

# DH-HAC-T1A21-U 2MP IR HDCVI Fixed-focal Eyeball Camera



### · Max. 30 fps@1080p

- · Smart IR Illumination
- · 25 m illumination distance.
- · Quick-to-install eyeball saves installation time.
- · 3.6 mm fixed lens (2.8 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.

#### 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

BLC; DWDR

DWDR

Auto Auto

Auto(ICR)/Color/B/W

Resolution Day/Night

BLC

WDR

White Balance

Gain Control

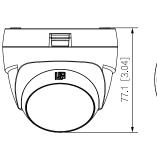
1080p (1920 × 1080); 960H (960 × 576/960 × 480)

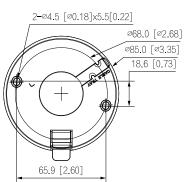
Technical Specification						Noise Reduction	2D NR
Camera						Illumination Mode	Smart IR
Image Sensor		2 MP CMOS				Certification	
Max. Resolution		1920 (H) × 1080 (V)				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Scanning System		Progressive				Port	CE EMC. EN 35052, EN 35055
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one port
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Power	port
S/N Ratio		>65 dB				Power Supply	12 VDC ± 30%
Illumination Distance		25 m (82.02 ft)				Power Consumption	Max 2.3 W (12 VDC, IR on)
Illuminator On/Off Control						Environment	
Illuminator Number		1 (IR light)				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Operating Humidity	<95% (RH), non-condensing
						Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Lens						Storage Humidity	<95% (RH), non-condensing
Lens Type		Fixed-focal				Anti-corrosion Level	Basic Protection
Lens Mount		M12				Structure	
Focal Length		2.8 mm; 3.6 mm				Casing Material	Plastic
Max. Aperture		F2.0				Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
Field of View		2.8 mm: H: 100°; V: 54°; D: 117°				Net Weight	0.11 kg (0.24 lb)
		3.6 mm: H: 80°; V: 43°; D: 94°				Gross Weight	0.12 kg (0.26 lb)
Iris Control		Fixed				Installation	Wall mount; ceiling mount
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)		
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					

# Cooper Series | DH-HAC-T1A21-U

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

Dimensions (mm[inch])





# Accessories

Optional:





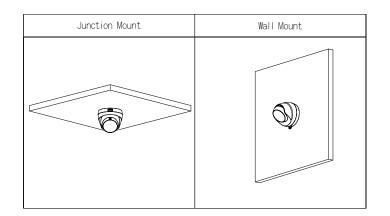


PFM800-E Passive HDCVI Balun

PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



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