

# DH-HAC-T1A21P-U-IL-A

2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



#### · Max. 30 fps@1080p.

- · Smart Dual Light.
- $\cdot$  25 m illumination distance.
- · Built-in MIC.
- $\cdot$  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 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.

#### 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						Gain Control	Auto;Manual
Camera						Noise Reduction	2D NR
Image Sensor		2 MP CMOS				Illumination Mode	Smart IR&WL WL Mode; IR Mode
Max. Resolution		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 Patio		>65 dB				Port	
S/N Ratio		IR: 25 m (82.02 ft);				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illumination Distance		Warm light: 20 m (65.62 ft)				Audio Input	One channel built-in Mic
Illuminator On/Off Control		Auto;Manual				Power	
Illuminator Number		2 (Warm light);2 (IR light)				Power Supply	12 VDC ± 30%
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power Consumption	Max 2.1 W (12 VDC, LED on)
				Environment			
Lens						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")
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.11 kg (0.24 lb)
	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m	Gross Weight	0.12 kg (0.26 lb)
	3.6 mm	(146.65 ft) 55.0 m (180.45 ft)	(58.73 ft) 22.0 m (72.18 ft)	(29.20 ft) 11.0 m (36.09 ft)	(14.76 ft) 5.5 m (18.04 ft)	Installation	Wall mount; ceiling mount

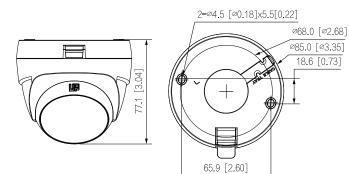
Video

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	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				

### Dimensions (mm[inch])



#### Accessories

#### Optional:



PFA12C Plastic Junction Box



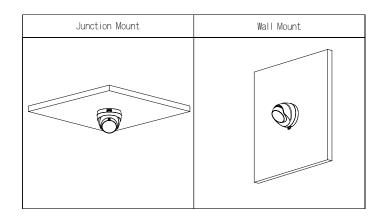
PFM321D 12V 1A Power Adapter



PFM800-E Passive HDCVI Balun



PFM904 Integrated Mount Tester



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