

# DH-HAC-T2A21-U-IL-A

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.

#### **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.

#### Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

- · Max. 30 fps@1080p.
- · Smart Dual Light.
- $\cdot$  30 m illumination distance.
- $\cdot$  Built-in MIC.
- $\cdot$  2.8 mm fixed lens (3.6 mm,6 mm optional).
- $\cdot$  CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.



#### 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-T2A21-U-IL-A

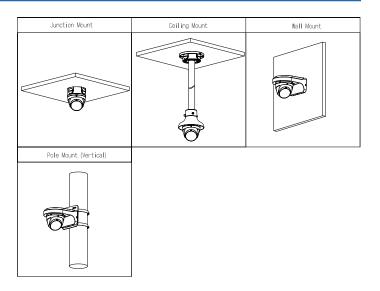
Technica	Specificatio	on					WDR	DWDR
Camera							White Balance	Auto;Area white balance
Image Sensor		2 MP CMOS					Gain Control	Auto;Manual
Max. Resolution		1920 (H) × 1080 (V)					Noise Reduction	2D NR
Scanning System		Progressive					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s					Mirror	Yes
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE);					Privacy Masking	Off/On (8 areas, rectangle)
S (N Patia		0 lux (Illuminator on)					Certification	
S/N Ratio		>65 dB IR: 30 m (98.43 ft);					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illumination Distance		Warm light: 20 m (65.62 ft)					Port	
Illuminator On/Off Control		Auto;Manual					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BN port
Illuminator Number		2 (Warm light);2 (IR light)					Audio Input	One channel built-in Mic
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Power	
Lens							Power Supply	12 VDC ± 30%
Lens Type		Fixed-focal					Power Consumption	Max 3.3 W (12 VDC, LED on)
Lens Mount		M12					Environment	
		2.8 mm; 3.6 mm; 6 mm					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Focal Length		F2.0					Operating Humidity	<95% (RH), non-condensing
Max. Aperture							Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50°					Storage Humidity	<95% (RH), non-condensing
Inia Construct		Fixed					Protection	IP67
Iris Control							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) 6 mm: 2.4 m (7.87 ft)					Structure	
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Casing Material	Metal
	2.8 mm	44.7 m	17.9 m	8.9 m	4.5 m		Product Dimensions	Φ94.0 mm × 77.9 mm (Φ3.70" × 3.07")
		(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	0.27 kg (0.60 lb)
	3.6 mm	(180.45 ft)	(72.18 ft)	(36.09 ft)	(18.04 ft)		Gross Weight	0.33 kg (0.73 lb)
	6 mm	102.9 m (337.60 ft)	41.1 m (134.84 ft)	20.6 m (67.59 ft)	10.3 m (33.79 ft)		Installation	Wall mount; ceiling mount; vertical pole 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			

# Cooper Series | DH-HAC-T2A21-U-IL-A

Ordering Information							
Туре	Model	Description					
2MP	DH-HAC-T2A21P-U-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL					
Camera	DH-HAC-T2A21N-U-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, NTSC					
	PFA13A-E	Junction Box					
	PFB205W-E	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA106	Adapter Plate of Mini Dome & Eyeball Camera					
(Optional)	PFB220C	Ceiling Mount Bracket					
	PFM321D	12V 1A Power Adapter					
	PFM800-E	Passive HDCVI Balun					
	PFM904	Integrated Mount Tester					



## Dimensions (mm[inch])

## Accessories

### Optional:



PFA13A-E Junction Box

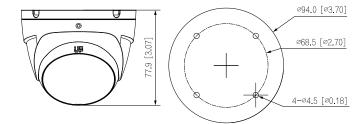


PFB205W-E Wall Mount Bracket



PFA152-E

PFM321D 12V 1A Power Adapter





PFA106

Adapter Plate of Mini

Dome & Eyeball Camera

PFM800-E Passive HDCVI Balun



PFB220C

Ceiling Mount Bracket

Integrated Mount Tester





© 2023 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. Rev 002.000