

DH-HAC-T2A21P-U

2MP IR HDCVI Fixed-focal Eyeball Camera



- · Max. 30 fps@1080p.
- · Smart IR Illumination.
- · 30 m illumination distance.
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.













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.

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 $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

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						
Camera						
Image Sensor		2 MP CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s; NTSC: 1/30 s-1/100000 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		30 m (98.43 ft)				
Illuminator On/Off Control		Auto;Manual				
Illuminator Number		2 (IR light)				
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm; 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° 6 mm: H: 43°; V: 24°; D: 50°				
Iris Control	Iris Control		Fixed			
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)				
	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)	
	6 mm	102.9 m (337.6 ft)	41.1 m (134.84 ft)	20.6 m (67.59 ft)	10.3 m (33.79 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 TVI: PAL: 1080p@30 fps PAL: 1080p@30 fps NTSC: 1080p@30 fps
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; DWDR
WDR	DWDR

White Balance	Auto	
Gain Control	Auto	
Noise Reduction	2D NR	
Illumination Mode	Smart IR	
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	
Power		
Power Supply	12 VDC ± 30%	
Power Consumption	Max 2.8 W (12 VDC, IR 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	
Protection	IP67	
Anti-corrosion Level	Basic Protection	
Structure		
Casing Material	Metal	
Product Dimensions	Φ94.0 mm × 77.9 mm (Φ3.70" × 3.07")	
Net Weight	0.27 kg (0.60 lb)	
Gross Weight	0.33 kg (0.73 lb)	
Installation	Wall mount; ceiling mount; vertical pole mount	

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

Junction Mount	Ceiling Mount	Wall Mount	
Pole Mount (Vertical)			

Dimensions (mm[inch])

Accessories

Optional:



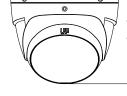
PFA13A-E Junction Box

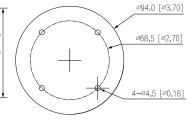


PFB205W-E Wall Mount Bracket



PFA152-E Pole Mount Bracket







PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFB220C Ceiling Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester