

DH-HAC-T2A21P-U 2MP IR 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 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 ±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 IR Illumination.
- \cdot 30 m illumination distance.
- \cdot 3.6 mm fixed lens (2.8 mm, 6 mm optional).
- · 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.

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Technical Specification						Day/Night	Auto(ICR)/Color/B/W
Camera						BLC	BLC; DWDR
Image Sensor		2 MP CMOS				WDR	DWDR
Max. Resolution		1920 (H) × 1080 (V)				White Balance	Auto
Scanning System		Progressive				Gain Control	Auto
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s; NTSC: 1/30 s-1/100000 s				Noise Reduction	2D NR
Min. Illumination			0 (Color, 30 IRE 2.0 (B/W, 30 IRE ator on)			Illumination Mode	Smart IR
S/N Ratio		>65 dB				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illumination Distance		30 m (98.43 ft)				Port	
Illuminator On/Off Control		Auto;Manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Illuminator Number		2 (IR light)				Power	port
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power Supply	12 VDC ± 30%
Lens						Power Consumption	Max 2.8 W (12 VDC, IR on)
Lens Type		Fixed-focal				Environment	
Lens Mount		M12				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Focal Length		2.8 mm; 3.6 mm; 6 mm				Operating Humidity	<95% (RH), non-condensing
Max. Aperture		F2.0				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		2.8 mm: H: 100°; V: 54°; D: 117°				Storage Humidity	<95% (RH), non-condensing
Field of View		3.6 mm: H: 80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50°				Protection	IP67
Iris Control		Fixed				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)				Structure	
		6 mm: 2.4 m				Casing Material	Metal
	Lens	Detect	Observe	Recognize	Identify	Product Dimensions	Φ94.0 mm × 77.9 mm (Φ3.70" × 3.07")
	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)	Net Weight	0.27 kg (0.60 lb)
	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)	Gross Weight	0.33 kg (0.73 lb)
DORI Distance	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)	Installation	Wall mount; ceiling mount; vertical pole mount

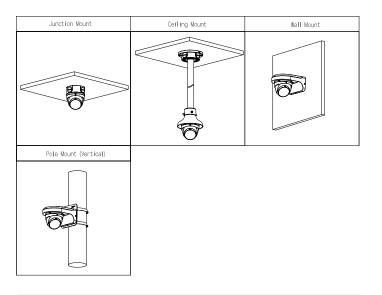
*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/ project design tool.

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)

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Ordering Information							
Model	Description						
DH-HAC-T2A21P-U	2MP IR HDCVI Fixed-focal Eyeball Camera, PAL						
DH-HAC-T2A21N-U	2MP IR HDCVI Fixed-focal Eyeball Camera, NTSC						
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						
	Model DH-HAC-T2A21P-U DH-HAC-T2A21N-U PFA13A-E PFB205W-E PFA152-E PFA106 PFB220C PFM800-E PFM800-E						



Dimensions (mm[inch])

Accessories

Optional:



PFA13A-E Junction Box



PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFM321D 12V 1A Power Adapter



PFB205W-E Wall Mount Bracket

PFB220C

Ceiling Mount Bracket

PFM904

Integrated Mount Tester



PFA152-E

Pole Mount Bracket

PFM800-E Passive HDCVI Balun

