

DH-HAC-T2A21

2MP 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.

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.

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



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.

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.

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Technical	Specification	on				
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		20 m (65.62 f	20 m (65.62 ft)			
Illuminator On/Off Control		Auto	Auto			
Illuminator N	umber	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		Fixed				
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.8 m (9.19 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 (337.60 ft)	41.1 m (134.84 ft)	20.6 m (67.59 ft)	10.3 m (33.79 ft)	

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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; 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; FCC: 47 CFR FCC Part 15, Subpart B
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 × 78.0 mm (Φ3.70" × 3.07")
Net Weight	0.27 kg (0.60 lb)
Gross Weight	0.35 kg (0.77 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

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

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount (Vertical)		

Optional:

Accessories



PFA13A-E Junction Box



PFA106 Mount Adapter



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



PFB205W-E Wall Mount Bracket



PFM321D 12V 1A Power Adapter



PFM800-E 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester

Dimensions (mm[inch])



