

DH-HAC-T2A21-A 2MP HDCVI Fixed-focal Eyeball Camera



- Max. 30 fps@1080p.
- · Smart IR Illumination.
- · 20 m illumination distance.
- \cdot Built-in Mic.
- \cdot 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.

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.

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.

Cooper Series | DH-HAC-T2A21-A

Technical	Specificatio	on			WDR	DWDR		
Camera					White Balance	Auto		
Image Senso	r	2 MP CMOS				Gain Control	Auto	
Max. Resolution		1920 (H) × 1080 (V)				Noise Reduction	2D NR	
Scanning System		Progressive				Illumination Mode	Smart IR	
Electronic Shutter Speed		PAL: 1/25 s-1, NTSC: 1/30 s-				Certification		
Min. Illumination			0 (Color, 30 IRE 0 (B/W, 30 IRE ator on)			Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B	
S/N Ratio		>65 dB	,			Port	Port	
Illumination Distance		20 m (65.62 f	t)			Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Illuminator C	Dn/Off Control	Auto				Audio Input	One channel built-in Mic	
Illuminator N	lumber	2 (IR light)				Power	Power	
Angle Adjustment		Pan: 0°–360°				Power Supply	12 VDC ± 30%	
		Tilt: 0°–78° Rotation: 0°–3	360°			Power Consumption	Max 2.8 W (12 VDC, IR on)	
Lens						Environment		
Lens Type		Fixed-focal				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Lens Mount		M12				Operating Humidity	<95% (RH), non-condensing	
Focal Length		2.8 mm; 3.6 n	nm; 6 mm			Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Max. Aperture		F2.0				Storage Humidity	<95% (RH), non-condensing	
Field of View)0°; V: 54°; D: 1 °; V: 43°; D: 94			Protection	IP67	
			V: 24°; D: 50°			Anti-corrosion Level	Basic Protection	
Iris Control		Fixed				Structure	Structure	
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)				Casing Material	Metal	
		6 mm: 2.8 m ((9.19 ft)			Product Dimensions	Φ94.0 mm × 78.0 mm (Φ3.70" × 3.07")	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Net Weight	0.27 kg (0.60 lb)	
	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)	Gross Weight	0.35 kg (0.77 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)	Installation	Wall mount; ceiling mount; vertical pole mount	

Video

6 mm

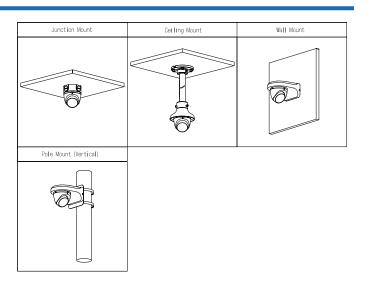
Video Frame Rate	CVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps AHD: PAL: 1080p@25 fps NTSC: 1080p@30 fps TVI: PAL: 1080p@25 fps NTSC: 1080p@30 fps CVBS: PAL: 960H; NTSC: 960H		
Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)		
Day/Night	Auto(ICR)/Color/B/W		
BLC	BLC; DWDR		

102.9 m 41.1 m 20.6 m (337.60 ft) (134.84 ft) (67.59 ft)

10.3 m (33.79 ft)

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Ordering Information						
Туре	Model	Description				
2MP	DH-HAC-T2A21P-A	2MP HDCVI Fixed-focal Eyeball Camera, PAL				
Camera	DH-HAC-T2A21N-A	2MP HDCVI Fixed-focal Eyeball Camera, NTSC				
	PFA135	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				



Dimensions (mm[inch])

Accessories

Optional:



PFA135 Junction Box



PFA106 Mount Adapter



PFM800-E 1 Channel Passive HDCVI Balun



PFA152-E Pole Mount Bracket



PFB220C Ceiling Mount Bracket



PFM904 Integrated Mount Tester



PFB205W-E Wall Mount Bracket



12V 1A Power Adapter

