

DH-HAC-T1A21 2MP HDCVI IR Eyeball Camera



System 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.

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.

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



Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

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-T1A21

Technical Specification

Camera

Camera					
Pixel		2 MP			
Image Sensor		2MP CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s			
Min. Illumination		0.04 lux@F2.0 (Color, 30 IRE) 0.004 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		20 m (65.62 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		1 (IR light)			
Pan/Tilt/Rotation Range		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. Aperture		F2.0			
Field of View		2.8 mm: H: 100°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 42°; D: 98° 6 mm: H: 53°; V: 30°; D: 60°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) 6 mm: 2.0 m (6.56 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)
	3.6 mm	60.9 m (199.80 ft)	24.3 m (79.72 ft)	12.2 m (40.03 ft)	6.1 m (20.01 ft)
	6 mm	82.8 m (271.65 ft)	33.1 m (108.60 ft)	16.6 m (54.46 ft)	8.3 m (27.23 ft)

WDR	DWDR				
White Balance	Auto; Area white balance				
Gain Control	Auto/Manual				
Noise Reduction	2D NR				
Smart Illumination	Yes				
Mirror	Yes				
Privacy Masking	Off/On (8 areas, rectangle)				
Certification					
Certifications	CE (EN55032:2015, EN61000-3-2:2014, EN61000- 3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)				
Port					
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port				
Power					
Power Supply	12 VDC ± 30%				
Power Consumption	Max. 2.3 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)				
Structure					
Casing	Plastic				
Product Dimensions	Φ85.4 mm × 68.8 mm (Φ3.36" × 2.71")				
Packaging Dimensions	109 mm × 109 mm × 85 mm (4.29" × 4.29" × 3.35")				
Net Weight	0.09 kg (0.20 lb)				
Gross Weight	0.13 kg (0.29 lb)				
Installation	Wall mount; ceiling mount; horizontal pole mount				

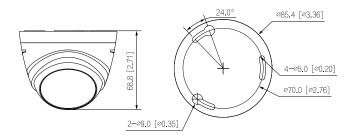
Video

Video Frame Rate	CVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps TVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps AHD: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@25 fps; 720p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR

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Ordering Information					
Туре	Part Number	Description			
2MP Camera	DH-HAC-T1A21P	2MP HDCVI IR Eyeball Camera, PAL			
	DH-HAC-T1A21N	2MP HDCVI IR Eyeball Camera, NTSC			
	PFA135	Junction Box			
	PFA135+PFA152-E	Pole Mount Bracket			
	PFB205W	Wall Mount Bracket			
Accessories (Optional)	PFA106+PFB220C	Ceiling Mount Bracket			
	PFM800-E	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			

Dimensions (mm[inch])



Accessories

Optional:



PFA135 Junction Box



PFA106+PFB220C Ceiling Mount Bracket



PFM904 Integrated Mount Tester



PFA135+PFA152-E Pole Mount Bracket



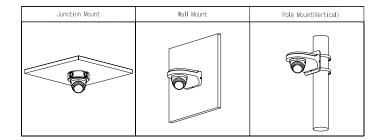
PFM800-E Passive HDCVI Balun



PFB205W Wall Mount Bracket



PFM321D 12V 1A Power Adapter



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