

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.

Technical Specification	on				WDR	DWDR
Camera					White Balance	Auto; Area white balance
Pixel	2 MP				Gain Control	Auto/Manual
Image Sensor	2MP CMOS				Noise Reduction	2D NR
Max. Resolution	1920 (H) × 1080 (V)				Smart Illumination	Yes
Scanning System	Progressive				Mirror	Yes
Electronic Shutter Speed	PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s				Privacy Masking	Off/On (8 areas, rectangle)
Min. Illumination	0.04 lux@F2.0 (Color, 30 IRE) 0.004 lux@F2.0 (B/W, 30 IRE)				Certification	CE (EN55032:2015, EN61000-3-2:2014, EN61000-
S/N Ratio	0 lux (Illuminator on) >65 dB			Certifications	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)	
Illumination Distance	20 m (65.62 ft)				Port	
Illuminator On/Off Control	Auto/Manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNO
Illuminator Number	1 (IR light)				Power	port
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			Power Supply	12 VDC ± 30%	
Lens					Power Consumption	Max. 2.3 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: 53°; D: 120°			Structure			
Field of View	3.6 mm: H: 82°; V: 42°; D: 98° 6 mm: H: 53°; V: 30°; D: 60°				Casing	Plastic
Iris Control	Fixed			Product Dimensions	Φ85.4 mm × 68.8 mm (Φ3.36" × 2.71")	
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)				Packaging Dimensions	109 mm × 109 mm × 85 mm (4.29" × 4.29" × 3.35")
2.230 . ddad Distance					Net Weight	0.09 kg (0.20 lb)
Lens	Detect	Observe	Recognize	Identify	Gross Weight	0.13 kg (0.29 lb)
2.8 mm DORI	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)	Installation	Wall mount; ceiling mount; horizontal pole mount
Distance 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)		

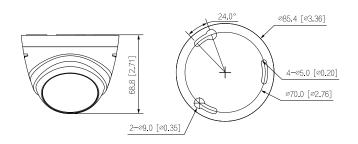
Video

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@30 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			

Cooper Series | DH-HAC-T1A21

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

Dimensions (mm[inch])



Accessories

Optional:



PFA135 Junction



PFA135+PFA152-E Pole Mount



PFB205W Wall Mount Bracket



PFA106+PFB220C Ceiling Mount Bracket



Bracket

PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

