

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	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) × 10	080 (V)			Smart Illumination	Yes	
Scanning System		Progressive				Mirror	Yes	
Electronic Shutter Speed		PAL: 1/25 s-1 NTSC: 1/30 s-				Privacy Masking	Off/On (8 areas, rectangle)	
Min. Illumination		0.04 lux@F2.	0 (Color, 30 IRE 2.0 (B/W, 30 IRE			Certification	CE (EN55032:2015, EN61000-3-2:2014, EN61000-	
S/N Ratio		0 lux (Illumina >65 dB	ator on)			Certifications	3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014+A11:2014, EN62368-1:2014	
Illumination Distance		20 m (65.62 f	t)			Port	, , ,	
Illuminator On/Off Control		Auto/Manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one B port	
Illuminator Number		1 (IR light)				Power		
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–	360°			Power Supply	12 VDC ± 30%	
Lens		Notation. 0 300				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 r	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)	
Max. Aperture			00°; V: 53°; D: 1	120°		Structure	Structure	
Field of View			2°; V: 42°; D: 98 ; V: 30°; D: 60°	3°		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 r				Packaging Dimensions	109 mm × 109 mm × 85 mm (4.29" × 4.29" × 3.35")	
		3.6 mm: 1.0 m (3.28 ft) 6 mm: 2.0 m (6.56 ft)				Net Weight	0.09 kg (0.20 lb)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight	0.13 kg (0.29 lb)	
	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)	Installation	Wall mount; ceiling mount; horizontal pole mount	
	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)			

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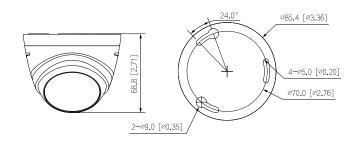
Video Frame Rate	CVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps TVI: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps AHD: PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps CVBS: PAL: 960H NTSC: 960H
Resolution	1080p (1920 × 1080); 720p (1280 × 720); 960H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

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)		

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Ordering Information Туре Part Number Description 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



3

PFA106+PFB220C Ceiling Mount Bracket



Bracket

PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

