

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
- IP67,12 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							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) UL (UL62368-1+CAN/CSA C22.2 No.62368-1)
Illumination Distance		20 m (65.62 ft)						
Illuminator C	n/Off Control	Auto/Manual					Port	
Illuminator Number		1 (IR light)					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°					Power	
							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)
Field of View		2.8 mm: H: 100°; V: 53°; D: 120° 3.6 mm: H: 82°; V: 42°; D: 98°					Structure	
		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")
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Net Weight	0.09 kg (0.20 lb)
	2.8 mm	46.9 m	18.8 m	9.4 m	4.7 m		Gross Weight	0.13 kg (0.29 lb)
		(153.87 ft) 60.9 m	(61.68 ft) 24.3 m	(30.84 ft) 12.2 m	(15.42 ft) 6.1 m		Installation	Wall mount; ceiling mount; horizontal pole mount
	3.6 mm	(199.80 ft)	(79.72 ft) 33.1 m	(40.03 ft)	(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)			

BLC; HLC; DWDR

CVI:

AHD:

CVBS: PAL: 960H NTSC: 960H

PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

PAL: 1080p@25 fps; 720p@25 fps NTSC: 1080p@30 fps; 720p@30 fps

Video

Video Frame Rate

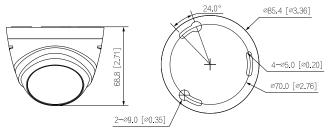
Resolution

BLC

Cooper Series | DH-HAC-T1A21

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 Box



PFA135+PFA152-E Pole Mount Bracket



PFB205W Wall Mount Bracket



PFA106+PFB220C Ceiling Mount Bracket



PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

