Dahua TECHNOLOGY

DH-HAC-T1A21

2MP HDCVI Fixed-focal Eyeball Camera

· Max. 30 fps@1080p.

· Smart IR Illumination.

· 20 m illumination distance.

· 3.6 mm fixed lens (2.8 mm,6 mm optional). · CVI/CVBS/AHD/TVI switchable.

· 12 VDC.

Cooper Series | **2Mp** | **20mIR** | Smart Illumination | **DC 12V** | High and Low Temperature

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.

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.

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Technical

Specification Camera

Image Sensor	2 MP CMOS
Max. Resolution	1920 (H) × 1080 (V)
Scanning System	Progressive
Electronic Shutter Speed	PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s
Min. Illumination	0.02 lux@F2.0 (Color, 30 IRE) 0.002 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
Illuminator Number	1 (IR light)
Angle Adjustment	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: 54°; D: 117° 3.6 mm: H:80°; V: 43°; D: 94° 6 mm: H: 43°; V: 24°; D: 50°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft) 6 mm: 2.8 m (9.19 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	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)
	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)
	6 mm	102.9 m (337.60 ft)	41.1 m (134.84 ft)	20.6 m (67.59 ft)	10.3 m (33.79 ft)

Video

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)
n	Auto(ICR)/Color/B/W
Day/Night	BLC; DWDR
BLC	

WDR	DWDR
White Balance	Auto
Gain Control	Auto
Noise Reduction	2D NR
Illumination Mode	Smart IR

Certification

Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B

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
Operating Humidity	°F) <95% (RH), non-condensing
Storage Temperature	−40 °C to +60 °C (−40 °F to +140
Storage Humidity	°F) <95% (RH), non-condensing
Anti-corrosion Level	Basic Protection

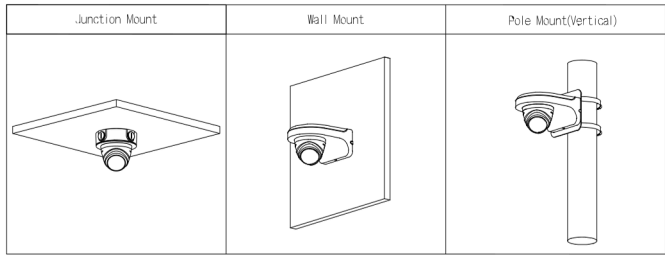### Structure

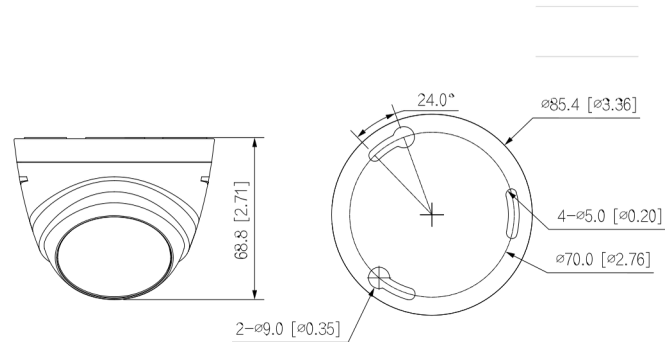|	
Casing Material	Plastic
Product Dimensions	Φ85.4 mm × 68.8 mm (Φ3.36" × 2.71")
Net Weight	0.09 kg (0.20 lb)
Gross Weight	0.13 kg (0.29 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

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Ordering Information

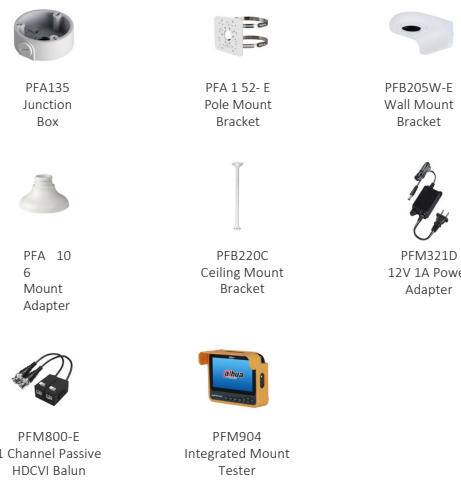| Type	Model	Description
2MP Camera	DH-HAC-T1A21P	2MP HDCVI Fixed-focal Eyeball Camera, PAL
	DH-HAC-T1A21N	2MP HDCVI Fixed-focal Eyeball Camera, NTSC
Accessories (Optional)	PFA135	Junction Box
	PFA 1 52- E	Pole Mount Bracket
	PFB205W-E	Wall Mount Bracket
	PFA 10 6	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFM321D	12V 1A Power Adapter
	PFM800-E	1 Channel Passive HDCVI Balun
	PFM904	Integrated Mount Tester

Accessories

Optional:

Junction Mount   Wall Mount   Pole Mount(Vertical)

Dimensions (mm[inch])

68.8 [2.71]

24.0°

⌀85.4 [⌀3.36]

4–⌀5.0 [⌀0.20]

⌀70.0 [2.76]

2–⌀9.0 [⌀0.35]

PFA135
Junction
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PFA 1 52- E
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Wall Mount
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PFA 10 6
Mount
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PFM800-E
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HDCVI Balun

PFM904
Integrated Mount
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