

DH-HAC-T1A21-U

2MP IR HDCVI Fixed-focal Eyeball Camera



- Max. 30 fps@1080p
- Smart IR Illumination
- 25 m illumination distance.
- Quick-to-install eyeball saves installation time.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.



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.

Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

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.

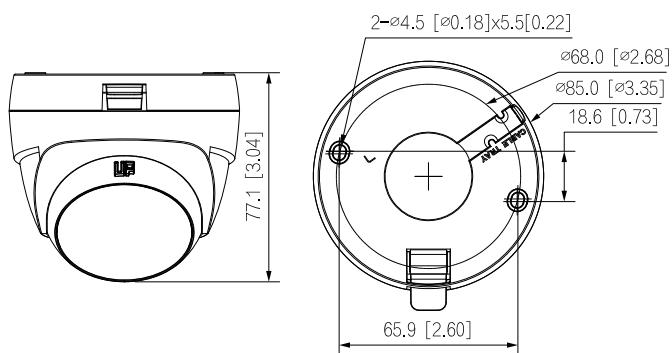
Simplicity

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.

Technical Specification										
Camera										
Image Sensor			2 MP CMOS							
Max. Resolution			1920 (H) × 1080 (V)							
Scanning System			Progressive							
Electronic Shutter Speed			PAL: 1/25 s–1/100,000 s; NTSC: 1/30 s–1/100,000 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			25 m (82.02 ft)							
Illuminator On/Off Control			Auto/Manual							
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							
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°							
Iris Control			Fixed							
Close Focus Distance			2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)							
DORI Distance	Lens		Detect	Observe	Recognize					
	2.8 mm		44.7 m (146.65 ft)	17.9 m (58.73 ft)	8.9 m (29.20 ft)					
	3.6 mm		55.0 m (180.45 ft)	22.0 m (72.18 ft)	11.0 m (36.09 ft)					
*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.										
Video										
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										
Video Frame Rate										
Resolution			1080p (1920 × 1080); 960H (960 × 576/960 × 480)							
Day/Night			Auto(ICR)/Color/B/W							
BLC			BLC; DWDR							
WDR										
White Balance										
Gain Control										
Noise Reduction										
Illumination Mode										
Certification										
Certifications			CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035							
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)							
Storage Humidity			<95% (RH), non-condensing							
Anti-corrosion Level			Basic Protection							
Structure										
Casing Material			Plastic							
Product Dimensions			Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")							
Net Weight			0.11 kg (0.24 lb)							
Gross Weight			0.12 kg (0.26 lb)							
Installation			Wall mount; ceiling mount							

Ordering Information		
Type	Model	Description
2MP Camera	DH-HAC-T1A21P-U	2MP IR HDCVI Fixed-focal Eyeball Camera, PAL
	DH-HAC-T1A21N-U	2MP IR HDCVI Fixed-focal Eyeball Camera, NTSC
Accessories (Optional)	PFA12C	Plastic Junction Box
	PFM800-E	Passive HDCVI Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester

Dimensions (mm[inch])



Accessories

Optional:



PFA12C
Plastic Junction Box



PFM800-E
Passive HDCVI Balun



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester

