

HAC-T1A21-U-IL

2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



- Max. 30 fps@1080p.
- Smart Dual Light.
- 25 m illumination distance.
- Quick-to-install eyeball saves installation time.
- 2.8 mm fixed lens (3.6 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 Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

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.

Broadcast-quality Audio

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

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						Gain Control		Auto;Manual	
Camera						Noise Reduction		2D NR	
Image Sensor		2 MP CMOS				Illumination Mode		Smart IR&WL; WL Mode; IR Mode	
Max. Resolution		1920 (H) × 1080 (V)				Mirror		Yes	
Scanning System		Progressive				Privacy Masking		Off/On (8 areas, rectangle)	
Electronic Shutter Speed		PAL: 1/25 s–1/100,000 s; NTSC: 1/30 s–1/100,000 s				Certification			
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE); 0.002 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)				Certifications		CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035	
S/N Ratio		>65 dB				Port			
Illumination Distance		IR: 25 m (82.02 ft); Warm light: 20 m (65.62 ft)				Video Output		Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Illuminator On/Off Control		Auto;Manual				Power			
Illuminator Number		2 (Warm light);2 (IR light)				Power Supply		12 VDC ± 30%	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power Consumption		Max 2.1 W (12 VDC, LED on)	
Lens						Environment			
Lens Type		Fixed-focal				Operating Temperature		–40 °C to +60 °C (–40 °F to +140 °F)	
Lens Mount		M12				Operating Humidity		<95% (RH), non-condensing	
Focal Length		2.8 mm;3.6 mm				Storage Temperature		–40 °C to +60 °C (–40 °F to +140 °F)	
Max. Aperture		F2.0				Storage Humidity		<95% (RH), non-condensing	
Field of View		2.8 mm: H: 100°; V: 54°; D: 117° 3.6 mm: H: 80°; V: 43°; D: 94°				Anti-corrosion Level		Basic Protection	
Iris Control		Fixed				Structure			
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)				Casing Material		Plastic	
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Product Dimensions		Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")	
	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)	Net Weight		0.11 kg (0.24 lb)	
	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)	Gross Weight		0.12 kg (0.26 lb)	
Video						Installation		Wall mount; ceiling mount	
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			
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480)				Day/Night			
Day/Night		Auto(ICR)/Color/B/W				BLC			
BLC		BLC; HLC; DWDR				WDR			
WDR		DWDR				White Balance			
White Balance		Auto;Area white balance							