

DH-HAC-T1A21-A

2MP HDCVI IR Eyeball Camera





- Max 30 fps@1080p
- · 3.6 mm fixed lens (2.8 mm, 6 mm optional)
- CVI/CVBS/AHD/TVI switchable
- · Max. IR length 20 m, Smart IR
- · Built-in Mic(-A)
- 12 VDC











System Overview

Cooper Series offers simple and highly cost-effective HDCVI solutions. It offers 24/7 reliable monitoring with high-quality image performance, saving both product and labor costs. It is also highly guaranteed by Dahua quality standard.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Broadcast-quality Audio

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m transmission for 2MP/5MP/8MP HD video via coaxial cable, and up to 300 m via UTP cable.

*Actual results verified by real-scene testing in Dahua's test laboratory.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Smart Illumination

The camera is designed with IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables high definition video surveillance without the hassle of configuring a network.

Technical Specification						Day/Night	Auto (ICR)/Color/B/W
Camera						BLC	BLC/HLC/DWDR
Pixel		2 MP				WDR	DWDR
Image Sensor		2 MP CMOS				White Balance	Auto; Area white balance
Max. Resolution		1920 (H) × 1080 (V)				Gain Control	Auto/Manual
Scanning System		Progressive				Noise Reduction	2D NR
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Motion Detection	Yes
Min. Illumination		0.04 lux/F2.0, 30 IRE, 0 lux IR on				Smart Illumination	Yes
S/N Ratio		> 65 dB				Mirror	Yes
Illumination Distance		20 m (65.62 ft)				Privacy Masking	Off/On (8 area, rectangle)
Illuminator On/Off Control		Auto				Certifications	
Illuminator Number		1 (IR light)				Certifications	CE (EN55032, EN55024, EN50130-4)
Pan/Tilt/Rotation Range		Pan: 0°–360°					FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014
		Tilt: 0°–78° Rotation: 0°–360°				Port	
Lens						Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens Type		Fixed-focal				Built-in Mic	Yes
Lens Mount		M12				Power	
Focal Length		2.8 mm; 3.6 mm; 6 mm;				Power Supply	12 VDC ± 30%
Max. Aperture		F2.0				Power Consumption	Max 2.2 W (12 VDC, IR on)
Field of View		2.8 mm: Horizontal: 100°; Vertical: 53°; Diagonal: 120° 3.6 mm: Horizontal: 83°; Vertical: 44°; Diagonal: 99° 6 mm: Horizontal: 53°; Vertical: 30°; Diagonal: 60°				Environmental	
						Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
						Operating Humidity	< 95% (non-condensation)
Iris Control		Fixed				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 0.8 m (2.62 ft)				Structure	
		6 mm: 1.9 m (6.23 ft)				Casing	Plastic throughout the whole casing
DORI distance	Lens	Detect	Observe	Recognize	Identify	Product Dimensions	68.8 mm × φ85.4 mm (2.71" × φ3.36")
	2.8 mm	46.9 m (153.87 ft)	18.8 m (61.67 ft)	9.4 m (30.83 ft)	4.7 m (15.41 ft)	Packaging Dimensions	102 mm × 98 mm × 72 mm (4" × 3.85" × 2.83")
	3.6 mm	53.7 m	21.5 m	10.7 m	5.4 m (17.72 ft) 8.3 m	Net Weight	0.09 kg (0.2 lb)
		(176.18 ft) 82.8 m	(70.54 ft) 33.1 m	(35.10 ft) 16.6 m		Gross Weight	0.13 kg (0.27 lb)
	6 mm	(271.65 ft)	(108.60 ft)	(54.46 ft)	(27.23 ft)	Installation	Wall; ceiling; horizontal pole mount; ceiling mount
Video							
Video Frame Rate		CVI: 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; TVI: PAL: 1080p@25 fps; 720p@25 fps; NTSC: 1080p@30 fps; 720p@30 fps; CVBS: PAL: 960×576H; NTSC: 960×480H					
Resolution		1080p (1920 × 1080); 720p (1280 × 720); 960H (960 × 576/960 × 480)					
		^ 3/0/30U ^ 40U/					