

DH-HAC-T1A21-A-IL

2MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



System Overview

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

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.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

* The parameters and datasheets below can only be applied to 1200-56-IL series.

- Max. 30 fps@1080p.
- 3D NR.
- Smart Dual Light.
- 20 m illumination distance.
- Super Adapt.
- Built-in mic.
- Quick-to-install eyeball saves installation time.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.



Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes. Wide voltage: The camera has $\pm 30\%$ input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

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.

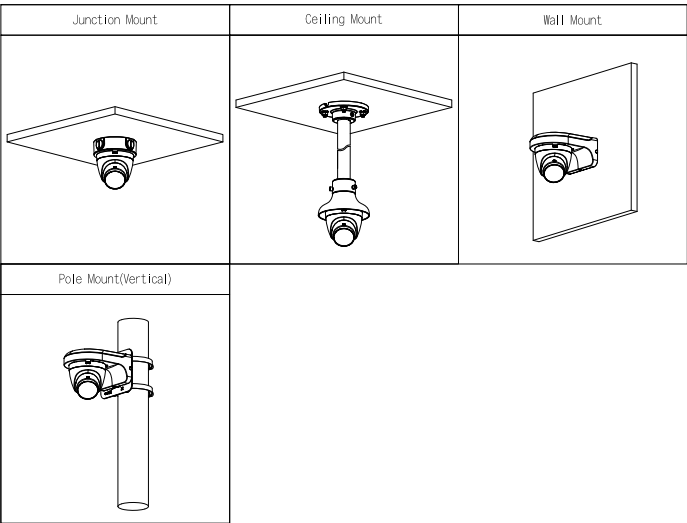
* Audio input is available for select HDCVI camera models.

Long Distance Transmission

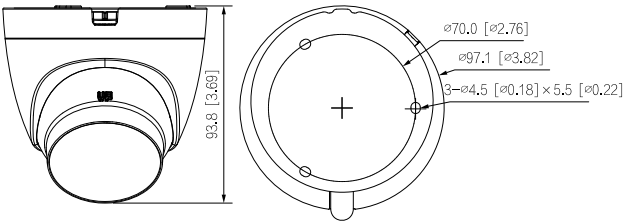
HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Technical Specification						White Balance		Auto;Area white balance	
Camera						Gain Control		Auto	
Image Sensor		2 MP CMOS				Noise Reduction		3D NR	
Max. Resolution		1920 (H) × 1080 (V)				Illumination Mode		Smart IR&WL; WL Mode; IR Mode	
Scanning System		Progressive				Mirror		Yes	
Electronic Shutter Speed		PAL: 1/25 s–1/100000 s NTSC: 1/30 s–1/100000 s				Privacy Masking		Off/On (8 areas, rectangle)	
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Certification			
S/N Ratio		>65 dB				Certifications			
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)				CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B			
Illuminator On/Off Control		Auto				Port			
Illuminator Number		2 (Warm light); 2 (IR light)				Video Output			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Video output choices of CVI/TVI/AHD/CVBS by one BNC port			
						Audio Input			
						1 channel			
						Power			
Lens						Power Supply			
Lens Type		Fixed-focal				12 VDC ± 30%			
Auto Focus		No				Power Consumption			
Lens Mount		M12				Max 2.6W (12 VDC, IR on)			
Focal Length		2.8 mm;3.6 mm				Environment			
Max. Aperture		F2.0				Operating Temperature			
Field of View		2.8 mm: H: 102°; V: 60°; D: 129° 3.6 mm: H: 83°; V: 48°; D: 105°				–40 °C to +60 °C (–40 °F to +140 °F)			
Iris Control		Fixed				Operating Humidity			
Close Focus Distance		2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.7 m (2.30 ft)				<95% (RH), non-condensing			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Storage Temperature			
	2.8 mm	41.1 m (135.83 ft)	16.5 m (42.13 ft)	8.3 m (27.23 ft)	4.1 m (13.45 ft)	–40 °C to +60 °C (–40 °F to +140 °F)			
	3.6 mm	50.9 m (166.99 ft)	20.3 m (66.60 ft)	10.2 m (33.46 ft)	5.1 m (16.73 ft)	Storage Humidity			
						<95% (RH), non-condensing			
						Protection			
						IP67			
						Structure			
Casing Material		Plastic				Product Dimensions			
Product Dimensions		Φ97.1 mm × 93.8 mm (Φ3.82" × 3.69")				Net Weight			
Net Weight		0.18 kg (0.40 lb)				Gross Weight			
Gross Weight		0.29 kg (0.64 lb)				Installation			
Installation		Wall mount; ceiling mount; vertical pole mount							

Ordering Information		
Type	Model	Description
2MP Camera	DH-HAC-T1A21-A-IL	2MP Smart Dual Light Eyeball Camera, PAL
	DH-HAC-T1A21-A-IL	2MP Smart Dual Light Eyeball Camera, NTSC
Accessories (Optional)	PFA13G	Junction Box
	PFA109	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFM800-E	Passive HDCVI Balun
	FM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester



Dimensions (mm [inch])



Accessories

Optional:



PFA13G
Junction
Box



PFA109
Mount Adapter



PFB220C
Ceiling Mount
Bracket



PFB205W-E
Wall Mount
Bracket



PFA152-E
Pole Mount
Bracket



PFM800-E
Passive HDCVI Balun



PFM321D
12V 1A Power
Adapter



PFM904
Integrated Mount
Tester