

DH-HAC-T1A51-U-IL-A

5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera



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.

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.

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.

* The parameters and datasheets below can only be applied to A51-U-IL-S2 series.

* In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.

- Max 25 fps@5MP (16:9 video output).
- Smart Dual Light.
- 25 m illumination distance.
- Built-in Mic.
- Quick-to-install eyeball saves installation time.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.



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.

Multiple Formats

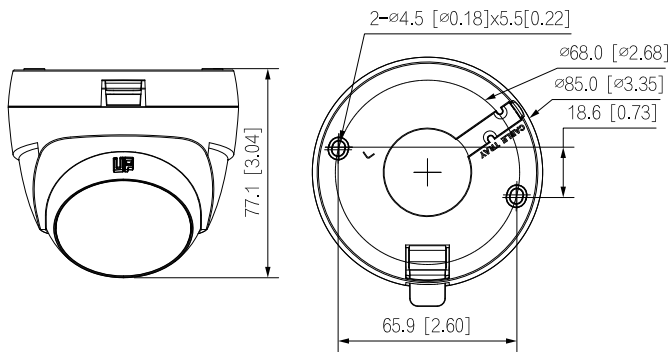
The camera supports videos in HDCVI, CVBS, TVI and AHD formats. The DIP switch on the cable allows you to quickly change formats through simple installation and debugging procedures. This feature makes the camera compatible with both XVRs and HD/SD XVRs.

* The DIP Switch is available for select HDCVI camera models.

Technical Specification							
Camera						WDR	DWDR
Image Sensor						White Balance	Auto;Area white balance
Max. Resolution						Gain Control	Auto
Scanning System						Noise Reduction	2D NR
Electronic Shutter Speed						Illumination Mode	Smart IR&WL; WL Mode; IR Mode
Min. Illumination						Mirror	Yes
S/N Ratio						Privacy Masking	Off/On (8 areas, rectangle)
Illumination Distance						Certification	
Illuminator On/Off Control						Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illuminator Number						Port	
Angle Adjustment						Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
						Audio Input	One channel built-in Mic
Lens						Power	
Lens Type						Power Supply	12 VDC ± 30%
Auto Focus						Power Consumption	Max 2.6W (12V DC, WLED on)
Lens Mount						Environment	
Focal Length						Operating Temperature	−40 °C to +55 °C (−40 °F to +131 °F)
Max. Aperture						Operating Humidity	<95% (RH), non-condensing
Field of View						Storage Temperature	−40 °C to +55 °C (−40 °F to +131 °F)
Iris Control						Storage Humidity	<95% (RH), non-condensing
Close Focus Distance						Anti-corrosion Level	Basic Protection
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Structure	
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)	Casing Material	Plastic
	3.6 mm	76.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (24.93 ft)	Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
Video						Net Weight	0.11 kg (0.24 lb)
Video Frame Rate						Gross Weight	0.12 kg (0.26 lb)
Resolution						Installation	Wall mount; ceiling mount;
Day/Night							
BLC							

Ordering Information		
Type	Model	Description
5MP Camera	DH-HAC-T1A51P-U-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL
	DH-HAC-T1A51N-U-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera, NTSC
Accessories (Optional)	PFA12C	Plastic Junction Box
	PFM800-4K	1-CH Passive Video Balun
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester

Dimensions (mm[inch])



Accessories

Optional:



PFA12C
Plastic Junction Box



PFM800-4K
1-CH Passive Video Balun



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester

Junction Mount	Wall Mount
