

# 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.

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Technical Specification						WDR	DWDR
Camera						White Balance	Auto;Area white balance
Image Sensor		5 MP CMOS				Gain Control	Auto
Max. Resolution		2880 (H) × 1620 (V)				Noise Reduction	2D NR
Scanning System		Progressive				Illumination Mode	Smart IR&WL WL Mode; IR Mode
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s				Mirror	Yes
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Privacy Masking  Certification	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035
Illumination Distance		IR: 25 m (82.02 ft); Warm Light: 20 m (65.62 ft)				Port	,
Illuminator On/Off Control		Auto/Manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		2 (Warm light);2 (IR light)				Audio Input	One channel built-in Mic
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				Power	
Lone		Rotation: 0 =360				Power Supply	12 VDC ± 30%
Lens		Fixed-focal				Power Consumption	Max 2.6W (12V DC, WLED on)
Lens Type						Environment	
Auto Focus		No				Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Lens Mount		M12				Operating Humidity	<95% (RH), non-condensing
Focal Length		2.8 mm;3.6 mm				Storage Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Max. Aperture		F2.0				Storage Humidity	<95% (RH), non-condensing
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°				Anti-corrosion Level	Basic Protection
Iris Control		Fixed				Structure	
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft)				Casing Material	Plastic
	Lens	Detect	Observe	Recognize	Identify	Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
DORI Distance	2.8 mm	66.0 m	26.4 m	13.2 m	6.6 m	Net Weight	0.11 kg (0.24 lb)
		(216.54 ft) 76.0 m	(86.61 ft) 30.4 m	(43.31 ft) 15.2 m	(21.65 ft) 7.6 m	Gross Weight	0.12 kg (0.26 lb)
	3.6 mm	(249.34 ft)	(99.74 ft)	(49.87 ft)	(24.93 ft)	Installation	Wall mount; ceiling mount;
Video							

PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps; NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps

AHD:

TVI:

Video Frame Rate

Resolution

Day/Night

BLC

PAL: 4M@25 fps; NTSC: 4M@30 fps

PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H

5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)

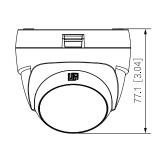
Auto(ICR)/Color/B/W

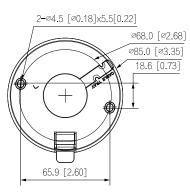
BLC; HLC; DWDR;

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

# Dimensions (mm[inch])





## **Accessories**

### Optional:







PFM800-4K 1-CH Passive Video Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester

