

# DH-HAC-T1A51-U

### 5MP IR HDCVI Fixed-focal Eyeball Camera



- In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to
- · Max 25 fps@5MP (16:9 video output).
- · Smart IR Illumination.
- · 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 IR Illumination**

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

#### 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.

#### Multi-language OSD

The OSD offers multiple functions to meet the many requirements of a monitoring scene, such as backlight mode, day/night mode, white balance, privacy mask, and motion detection. 11 languages are available for OSD: Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

#### **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.

## Cooper Series | DH-HAC-T1A51-U

Technical Specification					
Camera					
Image Sensor		5 MP CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s			
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		25 m (82.02 ft)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		2 (IR light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Apertu	re	F2.0			
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 92°; V: 48°; D: 109°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.3 m (4.27 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	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)

Vi	deo

Video Frame Rate	CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Day/Night	Auto(ICR)/Color/B/W
BLC	BLC; HLC; DWDR
WDR	DWDR

White Balance	Auto;Area white balance		
Gain Control	Auto;Manual		
Noise Reduction	2D NR		
Illumination Mode	Smart IR		
Mirror	Yes		
Privacy Masking	Off/On (8 areas, rectangle)		
Certification			
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035		
Port			
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Power			
Power Supply	12 VDC ± 30%		
Power Consumption	Max 2.7 W (12 VDC, IR on)		
Environment			
Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)		
Operating Humidity	<95% (RH), non-condensing		
Storage Temperature	-40 °C to +55 °C (-40 °F to +131 °F)		
Storage Humidity	<95% (RH), non-condensing		
Anti-corrosion Level	Basic Protection		
Structure			
Casing Material	Plastic		
Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")		
Net Weight	0.11 kg (0.24 lb)		
Gross Weight	0.12 kg (0.26 lb)		
Installation	Wall mount; ceiling mount		

## Cooper Series | DH-HAC-T1A51-U

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

## Accessories

### Optional:



PFA12C Plastic Junction Box



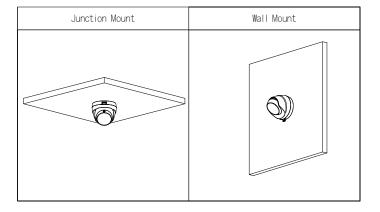
PFM321D 12V 1A Power Adapter



PFM800-4K 1-CH Passive Video Balun



PFM904 Integrated Mount Tester



### Dimensions (mm[inch])

