

# DH-HAC-T1A51-U-A

# 5MP IR 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**

#### **Built-in Mic**

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.

### 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.

#### 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-S3 series.
- · Max 25 fps@5MP (16:9 video output)
- Smart IR Illumination.
- · 25 m illumination distance.
- · Quick-to-install eyeball saves installation time.
- · Built-in MIC.
- · 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.

#### 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.

NTSC: 960H

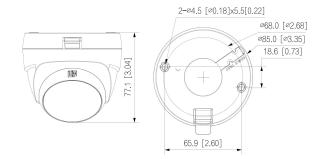
Technical:	Specificatio	n						5M (2880 × 1620); 4M (2560 × 1440); 1080p (1
Camera						Resolution	1080); 960H (960 × 576/960 × 480); TVI 5M 16:9 × 1665)	
Image Sensor		5 MP CMOS					Day/Night	Auto(ICR)/Color/B/W
Max. Resolution		2880 (H) × 1620 (V)					BLC	BLC; HLC; WDR
Scanning System		Progressive					WDR	DWDR
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s					White Balance	Auto;Area white balance
specu		NTSC: 1/30 s-1/100,000 s					Gain Control	Auto
Min. Illumination		0.02 lux@F2.0 (Color, 30 IRE) 0.002 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Noise Reduction	2D NR
S/N Ratio		>65 dB					Illumination Mode	Smart IR
Illumination Distance		IR: 25 m (82.02 ft)					Mirror	Yes
Illuminator On/Off Control		Auto/Manual					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator Number		2 (IR light)					Certification	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–78°					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
gie Aujustinent		Rotation: 0°–360°					Audio	
Lens						Built-in Mic	Yes	
Lens Type		Fixed-focal					Camera Audio	CVI; TVI
Lens Mount		M12					Pick-up Distance	8 m (26.25 ft)
Focal Length		2.8 mm; 3.6 mm					Port	
Max. Aperture		F2.0					Video Output	Video output choices of CVI/TVI/AHD/CVBS by oport (DIP Switch)
Field of View		2.8 mm: H: 105.5°; V: 56.5°; D: 125.3° 3.6 mm: H: 86°; V: 46.1°; D: 104.3°					Power	
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft)					Power Supply	12 VDC (±30%)
close rocas a	ristarice	3.6 mm: 1.4 m (4.59 ft)					Power Consumption	Max 2.5 W (12 VDC, IR on)
	Lens	Detect	Observe	Recognize	Identify		Environment	
	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)		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.6 mm	79.4 m	31.8 m	15.9 m	7.9 m		Operating Humidity	<95% (RH), non-condensing
DORI	3.6 mm	( 260.50 ft)	( 104.33 ft)	( 52.17 ft)	( 25.92 ft)		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Distance	,	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the					Storage Humidity	<95% (RH), non-condensing
	video to distinguish persons or objects within a covered area.  The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.						Anti-corrosion Level	Basic Protection
							Structure	
							Casing Material	Plastic
Video							Product Dimensions	Φ85.0 mm × 77.1 mm (Φ3.35" × 3.04")
		CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps;					Net Weight	0.13 kg (0.29 lb)
Video Frame Rate		1080p@25 fps, 5M@20 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 5M 30 fps TVI: PAL: 5M 16:9@20 fps NTSC: 5M 16:9@20 fps CVBS: PAL: 960H NTSC: 960H					Gross Weight	0.19 kg (0.42 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount

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

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-T1A51N-U-A	5MP IR HDCVI Fixed-focal Eyeball Camera,NTSC						
TIDEVI CAWILIVA	DH-HAC-T1A51P-U-A	5MP IR HDCVI Fixed-focal Eyeball Camera,PAL						
	DH-PFA12C	Plastic Junction Box						
	DH-PFM800-4K	1 Channel Passive HDCVI Balun						
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM904	Integrated Mount Tester						

## Dimensions (mm[inch])

mm [inch]



## Accessories

#### Optional:



DH-PFA12C Plastic Junction Box



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



athus

DH-PFM800-4K 1 Channel Passive HDCVI Balun

PFM904 Integrated Mount Tester

