

DH-HAC-T1A51-U

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

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.

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.

- * 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.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.













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.

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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		IR: 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. Aperture		F2.0			
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°			
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 1.4 m (4.59 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	79.4 m (260.50 ft)	31.8 m (104.33 ft)	15.9 m (52.17 ft)	7.9 m (25.92 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the 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.				
Video					

Video Frame Rate	CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 5M@20 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 5M 16:9@20 fps NTSC: 5M 16:9@20 fps CVBS: PAL: 960H NTSC: 960H
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Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480); TVI 5M 16:9 (2960 × 1665)		
Day/Night	Auto(ICR)/Color/B/W		
BLC	BLC; HLC; WDR		
WDR	DWDR		
White Balance	Auto;Area white balance		
Gain Control	Auto		
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 (DIP Switch)		
Power			
Power Supply	12 VDC (±30%)		
Power Consumption	Max 2.5 W (12 VDC, IR on)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	<95% (RH), non-condensing		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °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	0.13 kg (0.29 lb)		
Gross Weight	0.19 kg (0.42 lb)		
Installation	Wall mount; ceiling mount; vertical pole mount		

Ordering Information					
Туре	Model	Description			
HDCVI CAMERA	DH-HAC-T1A51N-U	5MP IR HDCVI Fixed-focal Eyeball Camera,NTSC			
TIDEVI CAIVILINA	DH-HAC-T1A51P-U	5MP IR HDCVI Fixed-focal Eyeball Camera,PAL			

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Туре	Model	Description
Accessories (Optional)	DH-PFA12C	Plastic Junction Box
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester

Accessories

Optional:







DH-PFM320D-EN DC12V2A power adapter



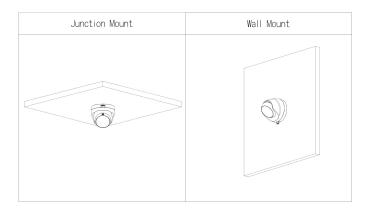
DH-PFM321-EN DC12V1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

mm [inch]

