

DH-HAC-T1A51

5MP HDCVI Fixed IR Eyeball Camera

HDCVI



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

- Max. 25 fps@5MP (16:9 video output)
- CVI/CVBS/AHD/TVI switchable
- 3.6 mm fixed lens (2.8 mm optional)
- Max. IR length 20 m, Smart IR
- DC12V



System Overview

Experience 5MP video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 5MP HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various vari-focal/fixed lens models with a multi-language OSD and HD/SD switchable output. Its structural flexibility and high cost-performance makes the camera an ideal choice for SMB solutions.

Functions

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the HCVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700m for 5MP HD video via coaxial cable, and up to 300m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Smart IR

The camera is designed with microcrystalline LED IR illumination for best lowlight performance. Smart IR is a technology to ensure brightness uniformity in B/W image under low illumination. Dahua's unique Smart IR adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object, and prevents IR LEDs from overexposing images as the object come closer to the camera.

Multi-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu. This feature makes the camera to be compatible with not only XVRs but also most end users' existing HD/SD DVRs.

Multi-language OSD

OSD menu provides multiple image adjustments and function settings to meet the requirements of different monitoring scenes. The OSD menu includes configurations such as backlight mode, day/night, white balance, privacy mask and motion detect. The camera supports 11 languages for OSD menu, namely, Chinese, English, French, German, Spanish, Portuguese, Italian, Japanese, Korean, Russian and Polish.

Protection

With working temperature range of -40 °C to +55°C (-40 °F to +131°F), the camera is designed for extreme temperature environments.

Supporting ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification						BLC Mode	BLC / HLC / DWDR
Camera						WDR	DWDR
Image Sensor	1/2.7" CMOS					Gain Control	AGC
Max. Resolution	2880 (H) x 1620 (V)					Noise Reduction	2D
Pixel	5MP					White Balance	Auto;manual
Scanning System	Progressive					Smart IR	Yes
Electronic Shutter Speed	PAL: 1/25~1/100000 s NTSC: 1/30~1/100000 s					Mirror	Off/On
Min. Illumination	0.02 Lux/F2.0, 30IRE, 0 Lux IR on					Privacy Masking	Off / On (8 area, rectangle)
S/N Ratio	More than 65 dB					Certifications	
Illumination Distance	20 m (66 feet)					Certifications	CE (EN55032, EN55024, EN50130-4, EN60950-1, EN 62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Illuminator On/Off Control	Auto;manual					Interface	
Lens						Audio Interface	N/A
Lens Type	Fixed lens / Fixed iris					Electrical	
Mount Type	M12					Power Supply	12V DC ±30%
Focal Length	3.6mm (2.8mm Optional)					Power Consumption	Max. 2.7W (12V DC, IR on)
Max Aperture	F2.0					Environmental	
Angle of View	2.8 mm: 125° x 106° x 56° (diagonal x horizontal x vertical) 3.6 mm: 104° x 88° x 46° (diagonal x horizontal x vertical)					Operating Conditions	−40°C to +55°C (−40°F to +131°F) /Less than 95% RH *Start up should be done at above −40°C (−40°F)
Focus Control	N/A					Storage Conditions	−40°C to +55°C (−40°F to +131°F) /Less than 95% RH
Close Focus Distance	2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.2 m (3.9 ft)					Ingress Protection & Vandal Resistance	NA
DORI distance	Lens	Detect	Observe	Recognize	Identify	Construction	
	2.8mm	56.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	5.6 m (18.4 ft)	Casing	Plastic
	3.6mm	80 m (262.5 ft)	32 m (105.0 ft)	16 m (52.5 ft)	8 m (26.2 ft)	Dimensions	Φ85.4 mm x 68.8 mm (Φ3.36 x 2.71")
Pan / Tilt / Rotation						Net Weight	0.09 kg (0.20 lb)
Pan/Tilt/Rotation	Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°					Gross Weight	0.14 kg (0.31 lb)
Video							
Resolution	5M (2880 x 1620); 4M (2560 x 1440); 1080P (1920 x 1080); 960H (960 x 576/960 x 480)						
Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080P@25 fps NTSC: 5M@25 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: 960H;						
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port						
Day/Night	Auto (ICR) / Manual						
OSD Menu	Multi-language						

Ordering Information

Type	Part Number	Description
5MP Camera	DH-HAC-T1A51P 2.8mm	5MP HDCVI IR Eyeball Camera, PAL
	DH-HAC-T1A51P 3.6mm	
	DH-HAC-T1A51N 2.8mm	5MP HDCVI IR Eyeball Camera, NTSC
	DH-HAC-T1A51N 3.6mm	
Accessories	PFA135	Junction box (For use alone or with PFA152-E pole mount)
	PFA152-E	Pole mount (For use with PFA135 junction box)
	PFB205W	Wall-mount Bracket
	PFM800-4K	Passive Video Balun
	PFM321	12V 1A Power Adapter
	PFM907	Integrated Mount Tester

Accessories

Optional:



PFA135
Junction box



PFA152-E
Pole mount



PFB205W
Wall-mount Bracket



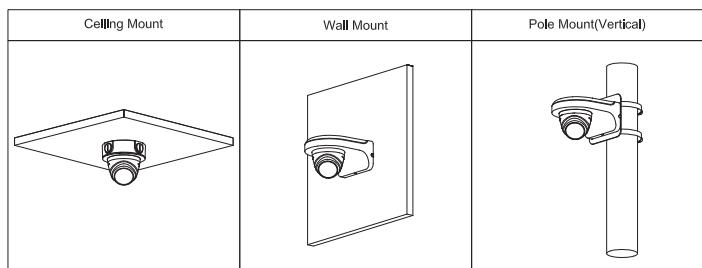
PFM800-4K
Passive Video Balun



PFM321
12V 1A Power Adapter



PFM907
Integrated Mount Tester



Dimensions (mm/inch)

