

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.

Cooper Series | DH-HAC-T1A51

Technical Specification							BLC Mode	BLC / HLC / DWDR	
Camera							WDR	DWDR	
Image Sensor		1/2.7" CMOS					Gain Control	AGC	
Max. Resolution		2880 (H) × 1620 (V)					Noise Reduction	2D	
Pixel		5MP					White Balance	Auto;manual	
Scanning System		Progressive					Smart IR	Yes	
Electronic Shut	tter 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					Eelectrical	,	
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	Max. 2.7 W (12V Be, IN on)	
Angle of View		2.8 mm: 125° × 106° × 56° (diagonal × horizontal × vertical) 3.6 mm: 104° × 88° × 46° (diagonal × horizontal × 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	
	2.6mm	80 m	32 m	16 m	8 m		Dimensions	φ85.4 mm × 68.8 mm (φ3.36 × 2.71")	
	3.6mm	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.2 ft)		Net Weight	0.09 kg (0.20 lb)	
Pan / Tilt /	Rotation						Gross Weight	0.14 kg (0.31 lb)	
Pan/Tilt/Rotation		Pan: 0° – 360° Tilt: 0° – 78° Rotation: 0° – 360°							
Video									
Resolution			5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080);960H (960 × 576/960 × 480)						

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

Video output choices of CVI/TVI/AHD/CVBS by one

AHD:

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

CVBS: 960H;

Frame Rate

Video Output

Day/Night

OSD Menu

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

Auto (ICR) / Manual

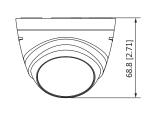
Multi-language

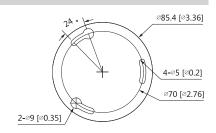
Cooper Series | DH-HAC-T1A51

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

Celling Mount	Wa ll Mount	Pole Mount(Vertical)

Dimensions (mm/inch)





Accessories

Optional:



PFA135 Junction box



PFM800-4K Passive Video Balun



PFA152-E Pole mount

12V 1A Power Adapter





PFM907 Integrated Mount Tester