

DH-HAC-T1A51

5MP HDCVI IR Eyeball Camera

HDCVI



- · Max. 20fps@5MP
- · HD and SD output switchable
- · 3.6mm fixed lens (2.8mm, 6mm optional)
- · Max. IR length 20m, 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.

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 or by PFM820 (UTC controller). 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		
Camera		
Image Sensor	1/2.7" CMOS	
Effective Pixels	2592(H)×1944(V), 5MP	
Scanning System	Progressive	
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	
Minimum Illumination	0.04Lux/F2.0, 30IRE, OLux IR on	
S/N Ratio	More than 65dB	
IR Distance	Up to 20m (66feet)	
IR On/Off Control	Auto / Manual	
Lens		
Lens Type	Fixed lens / Fixed iris	
Mount Type	Board-in	
Focal Length	3.6mm (2.8mm, 6mm Optional)	
Max Aperture	F1.85	
Angle of View	H: 77.5° (93°, 49°) v: 56.5° (68°, 37°)	
Focus Control	N/A	
Close Focus Distance	1400mm (800mm, 2500mm) 55.12" (31.50", 98.43")	

DORI Distance

Note: The DORI distance is a "general proximity" of distance which makes it easy to pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.

	DORI Definition	Distance
Detect	25px/m (8px/ft)	2.8mm:63m(207ft) 3.6mm: 80m(262ft) 6mm: 120m(394ft)
Observe	63px/m (19px/ft)	2.8mm:25m(83ft) 3.6mm: 32m(105ft) 6mm: 48m(157ft)
Recognize	125px/m (38px/ft)	2.8mm:13m(41ft) 3.6mm: 16m(52ft) 6mm: 24m(79ft)
Identify	250ppm (76px/ft)	2.8mm: 6mm(21ft) 3.6mm: 8m(26ft) 6mm: 12m(39ft)

Pan / Tilt / Rotation

Pan/Tilt/Rotation	Pan: 0° ~ 360° Tilt: 0° ~ 78°
	Rotation: 0° ~ 360°

Video

Resolution	5MP (2592×1944)
Frame Rate	20fps@5MP, 25/30fps@4MP, 25/30@1080P
Video Output	1-channel BNC high definition video output / CVBS video output (Can switch)

Day/Night	Auto (ICR) / Manual
OSD Menu	Multi-language
BLC Mode	BLC / HLC / DWDR
WDR	DWDR
Gain Control	AGC
Noise Reduction	2D
White Balance	Auto / Manual
Smart IR	Auto / Manual
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Interface	
Audio Interface	N/A
Eelectrical	
Power Supply	12V DC ±30%
Power Consumption	Max. 2.9W (12V DC, IR on)
Environmental	
Operating Conditions	-40°C $^{\sim}$ +55°C (-40°F $^{\sim}$ +131°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +55°C (-40°F ~ +131°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	NA
Construction	
Casing	Plastic
Dimensions	85mm×85mm×69mm(3.35"×3.35"×2.72")
Net Weight	0.09kg (0.20lb)

0.13kg (0.27lb)

Gross Weight

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Ordering Information			
Туре	Part Number	Description	
5MP Camera	DH-HAC-T1A51P 2.8mm		
	DH-HAC-T1A51P 3.6mm	5MP HDCVI IR Eyeball Camera, PAL	
	DH-HAC-T1A51P 6mm		
	DH-HAC-T1A51N 2.8mm	5MP HDCVI IR Eyeball Camera, NTSC	
	DH-HAC-T1A51N 3.6mm		
	DH-HAC-T1A51N 6mm		
Accessories	PFA135	Junction box (For use alone or with PFA152-E pole mount)	
	PFA152-E	Pole mount (For use with PFA135 junction box)	
	PFM800-4K	Passive Video Balun	
	PFM800B-4K	Passive Video Balun	
	PFM321	12V 1A Power Adapter	
	PFM320D-015	12V 1.5A Power Adapter	
	PFM300	12V 2A Power Adapter	
	PFM820	UTC Controller	

Accessories	

Optional:



PFA135 Junction box



PFM800B-4K Passive Video Balun



PFM820

UTC Controller

PFM300 12V 2A Power Adapter



PFA152-E Pole mount



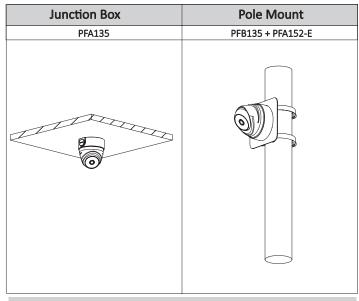
PFM321 12V 1A Power Adapter



Power Adapter

PFM800-4K

Passive Video Balun



Dimensions (mm/inch)

