

DH-HAC-T2A51

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
- · IP67, 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 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

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments.

With working temperature range of-40 $^{\circ}$ C to +60 $^{\circ}$ C (-40 $^{\circ}$ F to +140 $^{\circ}$ 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-T2A51

Technical Specification	1	Day/Night
Camera		OSD Menu
Image Sensor	1/2.7" CMOS	BLC Mode
Effective Pixels	2592(H)×1944(V), 5MP	WDR
Scanning System	Progressive	Gain Control
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s	Noise Reduction
Minimum Illumination	0.04Lux/F2.0, 30IRE, OLux IR on	White Balance
S/N Ratio	More than 65dB	Smart IR
IR Distance	Up to 20m (66feet)	Certifications
IR On/Off Control	Auto / Manual	Certifications
Lens		
ens Type	Fixed lens / Fixed iris	Interface
Mount Type	Board-in	Audio Interface
Focal Length	3.6mm (2.8mm, 6mm Optional)	Eelectrical
Max Aperture	F1.85	Power Supply
Angle of View	H: 77.5° (93°, 49°) v: 56.5° (68°, 37°)	Power Consumption
Focus Control	N/A	Environmental
Close Focus Distance	1400mm (800mm, 2500mm) 55.12" (31.50", 98.43")	Operating Conditions
DORI Distance		Storage Conditions
	and an airie. " of disease which makes "	Ingress Protection & Resistance
pinpoint the right camera for yo	neral proximity" of distance which makes it easy to ur needs. The DORI distance is calculated based on result according to EN 62676-4 which defines the	Construction
•	ognize and Identify respectively.	Casing

	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: 0° ~ 360°
Pan/Tilt/Rotation	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 CE (EN55032, EN55024, EN50130-4) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
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Audio Interface N/A	Audio Interface	N/A
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Power Supply	12V DC ±30%
Power Consumption	Max. 3.9W (12V DC, IR on)

Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% RH * Start up should be done at above-40°C (-40°F)
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Ingress Protection & Vandal Resistance	IP67

Casing	Aluminium
Dimensions	94mm×94mm×78mm(3.7"×3.7"×3.07")
Net Weight	0.27kg (0.60lb)
Gross Weight	0.34kg (0.75lb)

Cooper Series | DH-HAC-T2A51

Ordering In	formation		
Туре	Part Number	Description	
	DH-HAC-T2A51P 2.mm		
	DH-HAC-T2A51P 3.6mm	5MP HDCVI IR Eyeball Camera, PAL	
5MP Camera	DH-HAC-T2A51P 6mm		
	DH-HAC-T2A51N 2.8mm		
	DH-HAC-T2A51N 3.6mm	5MP HDCVI IR Eyeball Camera, NTSC	
	DH-HAC-T2A51N 6mm		
	PFA13A	Junction box (For use alone)	
	PFB204W	Wall mount (For use alone or with PFA152-E pole mount)	
Accessories	PFA152-E	Pole mount (For use with PFB204W wall mount)	
	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					
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Optional:



PFA13A Junction box



PFM800-4K Passive Video Balun



PFM320D-015 Power Adapter



PFB204W Wall mount



PFM800B-4K Passive Video Balun



PFM300 12V 2A Power Adapter



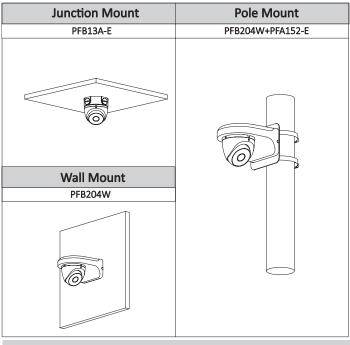
PFA152-E Pole mount



PFM321 12V 1A Power Adapter



PFM820 UTC Controller



Dimensions (mm/inch)

