

# 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  $\pm 30\%$  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

Video Resolution

Frame Rate

Video Output

Pan / Tilt / Rotation

Pan/Tilt/Rotation

Pan: 0° ~ 360° Tilt: 0° ~ 78°

Rotation: 0° ~ 360°

5MP (2592×1944)

video output (Can switch)

20fps@5MP, 25/30fps@4MP, 25/30@1080P

1-channel BNC high definition video output / CVBS

Technical Specification			Day/Night	Auto (ICR) / Manual
Camera		OSD Menu	Multi-language	
mage Sensor	1/2.7" CMOS		BLC Mode	BLC / HLC / DWDR
Effective Pixels	2592(H)×1944(V), 5.04N	1P	WDR	DWDR
canning System	Progressive		Gain Control	AGC
lectronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s		Noise Reduction	2D
Ainimum Illumination	0.04Lux/F2.0, 30IRE, OLux IR on		White Balance	Auto / Manual
i/N Ratio	More than 65dB		Smart IR	Auto / Manual
Distance Up to 20m (66feet)		Certifications		
IR On/Off Control	Auto / Manual			CE (EN55032, EN55024, EN50130-4)
Lens			Certifications	FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.
Lens Type Fixed lens / Fixed iris		Interface		
Mount Type	Board-in		Audio Interface	N/A
Focal Length 3.6mm (2.8mm, 6mm Optional)		ptional)	Eelectrical	
Max Aperture	F1.85		Power Supply	12V DC ±30%
Angle of View	H: 77.5° (93°, 49°)		Power Consumption	Max. 3.9W (12V DC, IR on)
v: 56.5° (68°, 37°)  Socus Control  N/A		Environmental		
Close Focus Distance	1400mm (800mm, 2500mm) 55.12" (31.50", 98.43")		Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than * Start up should be done at above-40°C (
			Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than
DORI Distance			Ingress Protection & Vandal Resistance	IP67
Note: The DORI distance is a "ge pinpoint the right camera for you consor specification and lab test	ur needs. The DORI distance i	is calculated based on	Construction	
sensor specification and lab test result according to EN 62676-4 which defines the criteria for Detect, Observe, Recognize and Identify respectively.			Casing	Aluminium
	DORI Definition	Distance	Dimensions	94mm×94mm×78mm(3.7"×3.7"×3.07")
Datast	25px/m	2.8mm:63m(207ft)	Net Weight	0.27kg (0.60lb)
	(8px/ft)	3.6mm: 80m(262ft) 6mm: 120m(394ft)	Gross Weight	0.34kg (0.75lb)
Observe	63px/m (19px/ft)	2.8mm:24m(79ft) 3.6mm: 32m(105ft) 6mm: 48m(157ft)		
Recognize	125px/m (38px/ft)	2.8mm:13m(43ft) 3.6mm: 16m(52ft) 6mm: 24m(79ft)		
Identify	250ppm	2.8mm: 6mm(20ft) 3.6mm: 8m(26ft)		

## Cooper Series | DH-HAC-T2A51

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

Arresso	Tride

#### Optional:











PFM320D-015 Power Adapter



PFB204W Wall mount



PFM800B-4K Passive Video Balun



PFM300 12V 2A Power Adapter



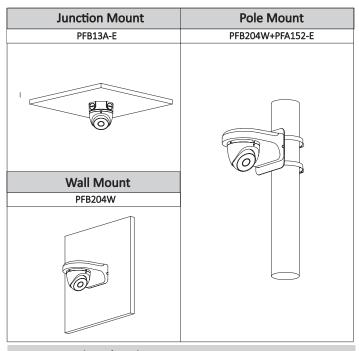
Pole mount



PFM321 12V 1A Power Adapter



PFM820 UTC Controller



### Dimensions (mm/inch)

