

# DH-HAC-T2A11

1MP HDCVI IR Eyeball Camera

## **HDCVI**



- · Max. 30fps@720P
- · HD and SD output switchable
- · 2.8mm fixed lens
- · Max. IR length 20m, Smart IR
- · IP67, DC12V













## **System Overview**

Experience 720P video and the simplicity of using existing cabling infrastructure with HDCVI. The Cooper series 720P HDCVI camera features a compact design and offers a high quality image at a friendly price. It offers various 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 800m(1080P)/1200m(720P) transmission via coaxial cable, and up to 300m(1080P)/450m(720P) 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. The camera supports 4 languages for OSD menu, namely, English, French, Spanish and Russian.

## 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-T2A11

Pan / Tilt / Rotation

Pan/Tilt/Rotation

Video Resolution

Frame Rate

Video Output

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

720P (1280×720)

25/30fps@720P

1-channel BNC high definition video output / CVBS video output (Can switch)

Technical Specification			Day/Night	Auto (ICR) / Manual
Camera		OSD Menu	Multi-language	
Image Sensor	1/2.7" CMOS		BLC Mode	BLC / DWDR
Effective Pixels	1280(H)×720(V), 1MP		WDR	DWDR
Scanning System	Progressive		Gain Control	AGC
Electronic Shutter Speed	PAL: 1/25~1/100000s NTSC: 1/30~1/100000s		Noise Reduction	2D
Minimum Illumination			White Balance	Auto / Manual
S/N Ratio	tio More than 65dB		Smart IR	Auto / Manual
IR Distance	Up to 20m (66feet)		Certifications	
IR On/Off Control	Auto / Manual		Certifications	CE (EN55032, EN55024, EN50130-4)
Lens			FCC (CFR 47 FCC Part 15 subpartB, AN	
Lens Type	Fixed lens / Fixed iris		Interface	
Mount Type	Board-in		Audio Interface	N/A
Focal Length	2.8mm		Eelectrical	
Max Aperture	F2.4		Power Supply	12V DC ±30%
Angle of View	H: 93° V: 48°		Power Consumption	Max. 2.7W (12V DC, IR on)
Focus Control	N/A		Environmental	
Close Focus Distance	800mm 31.50"		Operating Conditions	-40°C $^{\sim}$ +60°C (-40°F $^{\sim}$ +140°F) / Less than 95% f * Start up should be done at above-40°C (-40°F)
		Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% I	
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			Ingress Protection & Vandal Resistance	IP67
			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")
Detect	25px/m (8px/ft)	2.955. [1-/4.674]	Net Weight	0.27kg (0.60lb)
		2.8mm: 51m(167ft)	Gross Weight	0.32kg (0.71lb)
Observe	63px/m (19px/ft)	2.8mm: 20m(66ft)		
Recognize	125px/m (38px/ft)	2.8mm: 10m(33ft)		
Identify	250ppm (76px/ft)	2.8mm: 5m(17ft)		

## Cooper Series | DH-HAC-T2A11

Ordering Information				
Туре	Part Number	Description		
1MP Camera	DH-HAC-T2A11P 2.8mm	1MP HDCVI IR Eyeball Camera, PAL		
	DH-HAC-T2A11N 2.8mm	1MP HDCVI IR Eyeball Camera, NTSC		
	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)		
Accessories	PFM800-E	Passive HDCVI Balun		
	PFM321	12V 1A Power Adapter		
	PFM320D-015	12V 1.5A Power Adapter		
	PFM300	12V 2A Power Adapter		
	PFM820	UTC Controller		

## **Accessories**

## Optional:



PFA13A Junction box



PFM800-E Passive HDCVI Balun



PFB204W

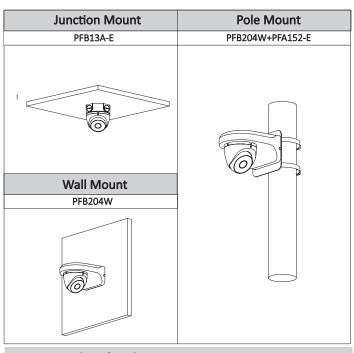
Wall mount

12V 1A Power Adapter

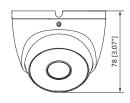


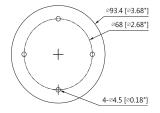
PFM820

UTC Controller



## Dimensions (mm/inch)







PFM300 12V 2A Power Adapter





PFA152-E

Pole mount

PFM320D-015

Power Adapter

