

DH-HAC-T1A29N

2MP Full-color Starlight HDCVI Eyeball Camera



- · Full-color starlight
- · 20 m illumination distance
- · Max. 30fps@1080P
- · CVI/CVBS/AHD/TVI switchable
- · Fixed lens (2.8 mm)
- · IP67, 12V±30% DC









System Overview

Experience 2MP full HD color video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The full-color starlight HDCVI camera presents a high quality color image with rich details even in total dark conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts one powerful warm white LED illuminators, covering an effective range up to 20 m (65.61 ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring anthentic identification of objects. It is an ideal choice for applications such as schools, retail centers and parking lots.

Functions

Full-color Starlight

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera presents an impressive lowlight performance with an exceptional balance between noise reduction and the blur of moving object.

Warm Supplemental lights

With one warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total dark. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposureing of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

Broadcast-quality Audio*

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

*This function is available for select models.

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 XVR, such as sending control signal or triggering alarm.

*Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 700 m for 2MP HD video via coaxial cable, and up to 300 m 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.

Multiple-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 most end users' existing HD/SD DVRs.

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 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting $\pm 30\%$ input voltage tolerance, this camera suits even the mostunstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Technical Specification						
Camera						
Image Sensor		1/2.8 inch CMOS				
Effective Pixels		1920 (H) × 1080 (V), 2MP				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				
S/N Ratio		>65dB				
Minimum Illumination		0.01Lux/F1.6, 0Lux white light on				
Illumination Distance		Distance up to 20 m (65.61 ft)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		1				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°-78 Rotation: 0°–360°				
Lens						
Lens Type	Lens Type		Fixed-focal			
Mount Type		M12				
Focal Length		2.8 mm				
Max. Aperture	Max. Aperture		F1.6 ;F1.6			
Field of View		2.8 mm: 126.2° × 106° × 56.5° (diagonal × horizontal × vertical); 3.6 mm: 103.6° × 86.9° × 46.3° (diagonal × horizontal × vertical)				
Iris Type		Fixed iris				
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft); 3.6 mm: 1.2 m (3.94 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (26.3 ft)	3.9 m (12.8 ft)	
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)	

Mirror	Off/On
Privacy Masking	Off/On (8 area, rectangle)
Certifications	
Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
Port	
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Power	
Power Supply	12V ±30% DC
Power Consumption	Max 3.0W (12V DC, White Light on)
Environment	
Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (noncondensation)
Protection Grade	IP67
Structure	
Casing	Inner core: metal + plastic Cover: plastic Pedestal: plastic
Camera Dimensions	φ97.1 mm × 91.4 mm (φ3.82" × 3.6")
Net Weight	0.21 Kg (0.46 lb)
Gross Weight	0.28 Kg (0.62 lb)

2D NR

Yes

Noise Reduction
Smart Light

Video

Frame Rate	CVI: PAL: 1080P@25fps; 720P@25fps; NTSC: 1080P@30fps; 720P@30fps; AHD: PAL: 1080P@25fps; NTSC: 1080P@30fps TVI: PAL: 1080P@25fps; NTSC: 1080P@30fps CVBS: PAL: 960H; NTSC: 960H
Resolution	1080P (1920 × 1080); 720P (1280× 720); 960H (960 × 576/960 × 480)
BLC	BLC/WDR
WDR	DWDR
White Balance	Auto; manual
Gain Control	Auto; manual

Ordering Information				
Туре	Part Number	Description		
2MP Camera	DH-HAC-T1A29N	2MP Full-color Starlight HDCVI Eyeball Camera		
Accessories	PFA13G	Junction Box		
	PFA130-E	IP66 Junction Box		
	PFB205W	Wall Mount Bracket		
	PFA152-E	Pole Mount Bracket		
	PFM321D	12V 1A Power Adapter		
	PFM904	Integrated Mount Tester		
	PFM820	UTC controller (Only 1080P and below are available)		
	PFM800-E	Passive HDCVI Balun		

Junction Mount	Junction Mount	
PFA13G	PFA130-E	
Wall Mount	Pole Mount (Vertical)	
PFB205W	PFA152-E+PFB205W	

Accessories

Optional:



PFA13G Junction Box



PFA130-E IP66 Junction Box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



PFM820 UTC controller (Only 1080P and below are available)



PFM800-E Passive HDCVI Balun

Dimensions (mm[inch])



