

DH-HAC-HDW1509TL(-A)-LED

5MP Full-color Starlight HDCVI Eyeball Camera



- · Full-color starlight
- · 20 m LED distance
- · Max. 20fps@5MP
- · CVI/CVBS/AHD/TVI switchable
- · Built-in mic (-A)
- \cdot 3.6 mm fixed lens (2.8 mm optional)
- · IP67, 12V±30% DC



System Overview

Experience 5MP 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 darkness conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts two 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 F1.2 large aperture lens and 1/2.7" 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 HCVR, 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 5MP 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.

Lite Series | DH-HAC-HDW1509TL(-A)-LED

Technical Specification						Mirror Off/On		
Camera					Privacy Masking Off/On (8 area, rectangle)			
Image Sensor		1/2.7 inch CMOS				Certifications		
Effective Pixels		2592 (H) × 1	944 (V), 5MP			Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Scanning System		Progressive				certifications		
Electronic Shu	tter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Port		
S/N Ratio		>65dB	,			Video Output Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Minimum Illun	nination	0.005Lux/F1.2, 0Lux White Light on				Audio Interface		
Fill Light (Whit	e Light) Distance	Distance up to 20 m (65.61 ft)				Audio Input	Built-in mic (-A)	
Fill Light On/O	ff Control	Auto; manual				Power		
Fill Light Number		1				Power Supply	12V ±30% DC	
		Pan: 0°–360°				Power Consumption	Max 3.0W (12V DC, White Light on)	
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°				Environment		
Lens						Operating Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)	
Lens Type		Fixed-focal				Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)	
Mount Type		M12						
Focal Length		2.8 mm; 3.6	mm			Protection Grade IP67		
Max. Aperture		F1.2				Structure		
Field of View		2.8 mm: 129 (diagonal × h 3.6 mm: 111	norizontal × vei	rtical)		Casing	Inner core: metal + plastic Cover: plastic Pedestal: plastic	
		(diagonal × ł	norizontal × vei	rtical)		Camera Dimensions	φ97 mm × 85.8 mm (φ3.82" × 3.38")	
Iris Type		Fixed iris				Net Weight	0.22 Kg (0.49 lb)	
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.1 m (6.89 ft)				Gross Weight	0.28 Kg (0.62 lb)	
DORI Distance	Lens	Detect	Observe	Recognize	Identify			
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)			

Video

Frame Rate	CVI: PAL: 5M@20fps, 4M@25fps, 1080P@25fps; NTSC: 5M@20fps, 4M@30fps, 1080P@30fps AHD: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps TVI: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps CVBS: PAL: 960H; NTSC: 960H				
Resolution	5M (2592 × 1944); 4M (2560 × 1440); 1080P (1920 × 1080); 960H (704 × 576/704 × 480);				
BLC	BLC/HLC/DWDR				
WDR	DWDR				
White Balance	Auto; manual				
Gain Control	Auto; manual				
Noise Reduction	2D NR				
Smart Light	Yes				

Lite Series | DH-HAC-HDW1509TL(-A)-LED

Ordering In	formation		Ceiling Mou	nt	Junction Mount	Wall Mount	
Туре	Part Number	Description			PFA130-E	PFA12A	
5MP Camera	DH-HAC- HDW1509TLP-A-LED		6			F	
	DH-HAC- HDW1509TLN-A-LED	5MP Full-color Starlight HDCVI Eyeball			6		
	DH-HAC- HDW1509TLP-LED	Camera	Pole Mour	-	Ceiling Mount		
	DH-HAC- HDW1509TLN-LED		PFA130-E+PFA152-E	52-Е	PFA106+PFB220C		
Accessories	PFA130-E	Water-proof Junction Box					
	PFA12A	Plastic Junction Box					
	PFA130-E + PFA152-E	Water-proof Junction Box + Pole Mount Bracket					
	PFA106 + PFB220C	Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera	Dimensions (mm[inch])				
	PFM820 (Only 1080P and below are available)	UTC Controller		<u>~97 [~3.82]</u>			
	РFM800-Е	Passive HDCVI Balun	38		7 / ≇	10.	
	PFM800-4K	Passive Video Balun					
	PFM907	Integrated Mount Tester					
	PFM320D	20D 12V 2A DC power adapter			<u>04.5 [00.18]</u>	∞70 [∞2.76]	

Accessories

Optional:



PFA130-E Water-proof Junction Box



PFA106 + PFB220C Adapter Plate of Mini Dome & Eyeball Camera + Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFIVI800-4K Passive Video Balun



PFA12A Plastic Junction Box



PFM820 UTC Controller



PFM907 Integrated Mount Tester

PFA130-E + PFA152-E Water-proof Junction Box + Pole Mount Bracket



PFM800-E Passive HDCVI Balun



PFM320D 12V 2A DC power adapter

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