

DH-HAC-HDW1509TL(-A)-LED

5MP Full-color Starlight HDCVI Eyeball Camera



- \cdot Full-color starlight
- \cdot 20 m LED distance
- · Max. 20fps@5MP
- \cdot 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 identificaiton 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/O
Camera						Privacy Masking	Off/O
Image Sensor		1/2.7 inch CMOS				Certifications	
Effective Pixels		2592 (H) × 19	944 (V), 5MP		Certifications	CE (EN FCC (C	
Scanning System		Progressive				Certifications	UL (UI
Electronic Shu	tter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Port	
S/N Ratio		>65dB			Video Output	Video BNC p	
Minimum Illum	nination	0.02Lux/F1.2, 0Lux White Light on				Audio Interface	
Fill Light (White	e Light) Distance	Distance up to 20 m (65.61 ft)				Audio Input	Built-i
Fill Light On/O	ff Control	Auto; manual				Power	
Fill Light Number		1				Power Supply	12V ±
Dan/Tilt/Detation Dange		Pan: 0°–360° Tilt: 0°–78°				Power Consumption	Max 3
Pan/Tilt/Rotation Range		Rotation: 0°–360°				Environment	
Lens						Operating Temperature	-40°C conde
Lens Type		Fixed-focal				Storage Temperature	-40°C
Mount Type		M12					conde
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	orizontal × ver	tical)	Casing	Inner Cover Pedes	
		(diagonal × horizontal × vertical)				Camera Dimensions	φ97 m
Iris Type		Fixed iris				Net Weight	0.22 k
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 k
DORI	Lens	Detect	Observe	Recognize	Identify		
Distance	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)		

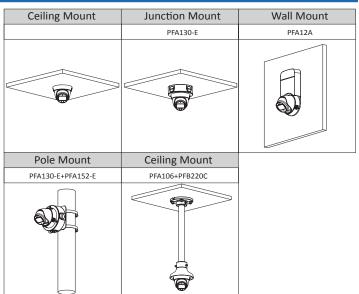
Mirror	Off/On				
Privacy Masking	Off/On (8 area, rectangle)				
Certifications					
Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)				
Port					
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port				
Audio Interface					
Audio Input	Built-in mic (-A)				
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% (non-condensation)				
Storage Temperature	-40°C to +60°C (-40°F to 140°F); <95% (non- condensation)				
Protection Grade	IP67				
Structure					
Casing	Inner core: metal + plastic Cover: plastic Pedestal: plastic				
Camera Dimensions	φ97 mm × 85.8 mm (φ3.82" × 3.38")				
Net Weight	0.22 Kg (0.49 lb)				
Gross Weight	0.28 Kg (0.62 lb)				

Video

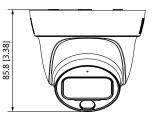
Frame Rate	CVI: PAL: 5M@20fps, 4M@25fps, 1080P@25fps; NTSC: 5M@20fps, 4M@30fps, 1080P@30fps AHD: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps TVI: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps CVBS: PAL: 960H; NTSC: 960H	
Resolution	5M (2592 × 1944); 4M (2560 × 1440); 1080P (1920 × 1080); 960H (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	

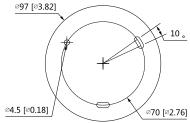
Lite Series | DH-HAC-HDW1509TL(-A)-LED

Ordering Information					
Туре	Part Number	Description			
5MP Camera	DH-HAC- HDW1509TLP-A-LED				
	DH-HAC- HDW1509TLN-A-LED	5MP Full-color Starlight HDCVI Eyeball Camera			
	DH-HAC- HDW1509TLP-LED				
	DH-HAC- HDW1509TLN-LED				
	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			
Accessories	PFM820 (Only 1080P and below are available)	UTC Controller			
	PFM800-E	Passive HDCVI Balun			
	PFM800-4K	Passive Video Balun			
	PFM907	Integrated Mount Tester			
	PFM320D	12V 2A DC power adapter			



Dimensions (mm[inch])





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



PFM800-4K 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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