

DH-HAC-HDW1509TL(-A)-LED

5MP Full-color Starlight HDCVI Eyeball Camera



\cdot 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 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 S	pecification				Mirror	
Camera						Privacy Masking
Image Sensor		1/2.7 inch CMOS				Certification
Effective Pixels		2592 (H) × 1944 (V), 5MP				Certifications
Scanning System		Progressive				Certifications
Electronic Shutter Speed		PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s				Port
S/N Ratio		>65dB				Video Output
Minimum Illumination		0.005Lux/F1.2, 0Lux White Light on				Audio Interfa
Fill Light (White Light) Distance		Distance up to 20 m (65.61 ft)				Audio Input
Fill Light On/Off Control		Auto; manual				Power
Fill Light Number		1				Power Supply
Den /Tilt /Detetion Denge		Pan: 0°–360° Tilt: 0°–78°				Power Consump
Pan/Tilt/Rotation Range		Rotation: 0°–360°				Environment
Lens					Operating Temp	
Lens Type		Fixed-focal				Storage Temper
Mount Type		M12				
Focal Length		2.8 mm; 3.6 mm				Protection Grad
Max. Aperture		F1.2				Structure
Field of View		2.8 mm: 129° × 98° × 71° (diagonal × horizontal × vertical) 3.6 mm: 111° × 83° × 56°				Casing
		(diagonal × horizontal × vertical)				Camera Dimens
Iris Type		Fixed iris				Net Weight
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.1 m (6.89 ft)				Gross Weight
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)	

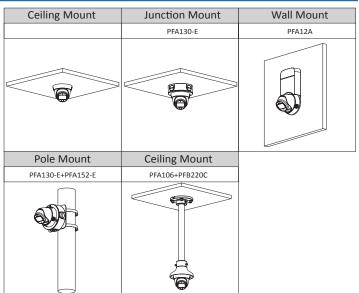
Mirror	Off/On				
Privacy Masking	Off/On (8 area, rectangle)				
Certifications					
Certifications	CE (EN55032, EN55024, EN50130-4,EN60950-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)				
Port					
Video Output	Video output choices of CVI/TVI/AHD/CVBS 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

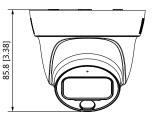
Frame Rate	CVI: PAL: 5M@20fps, 4M@25fps, 1080P@25fps; NTSC: 5M@20fps, 4M@30fps, 1080P@30fps AHD: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps TVI: PAL: 5M@20fps, 4M@25fps; NTSC: 5M@20fps, 4M@30fps CVBS: PAL: 960H; NTSC: 960H		
Resolution	5M (2592 × 1944); 4M (2560 × 1440); 1080P (1920 × 1080); 960H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

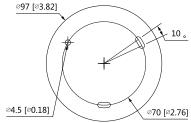
Lite Series | DH-HAC-HDW1509TL(-A)-LED

Ordering Information				
Туре	Part Number	Description		
5MP Camera	DH-HAC- HDW1509TLP-A-LED			
	DH-HAC- HDW1509TLN-A-LED	5MP Full-color Starlight HDCVI Eyeball		
	DH-HAC- HDW1509TLP-LED	Camera		
	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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