

DH-HAC-HFW1509T(-A)-LED

5MP Full-color Starlight HDCVI Bullet Camera



- \cdot Full-color starlight
- \cdot 20 m LED distance
- · Max. 20fps@5MP
- \cdot CVI/CVBS/AHD/TVI switchable
- \cdot Built-in mic (-A)
- · 3.6 mm fixed lens
- · 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 Plus Series | DH-HAC-HFW1509T(-A)-LED

Technical Specification

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Camera					
Image Sensor		1/2.7 inch CMOS			
Effective Pixels	5	2592 (H) × 1944 (V), 5MP			
Scanning Syste	m	Progressive			
Electronic Shut	tter Speed	PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s			
S/N Ratio		>65dB			
Minimum Illum	nination	0.005Lux/F1	.2, 0Lux White	Light on	
Fill Light (White	e Light) Distance	Distance up 1	Distance up to 20 m (65.61 ft)		
Fill Light On/Of	ff Control	Auto; manua	Auto; manual		
Fill Light Numb	ber	1			
Pan/Tilt/Rotat	ion Range	Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–			
Lens					
Lens Type		Fixed-focal			
Mount Type	e M12				
Focal Length	ength 3.6 mm				
Max. Aperture	F1.2				
Field of View		3.6 mm: 111° × 83° × 56° (diagonal × horizontal × vertical)			
Iris Type		Fixed iris			
Close Focus Di	stance	3.6 mm: 2.1 r	m (6.89 ft)		
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)

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	Metal throughout the whole casing
Camera Dimensions	174.5 mm × 70.6 mm × 72.3 mm (6.87" × 2.78" × 2.85")
Net Weight	0.33 Kg (0.73 lb)
Gross Weight	0.44 Kg (0.97 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/WDR
WDR	DWDR
White Balance	Auto; manual
Gain Control	Auto; manual
Noise Reduction	2D NR
Smart Light	Yes
Mirror	Off/On

Lite Plus Series | DH-HAC-HFW1509T(-A)-LED

Ordering Ir	nformation		Wall Mount	Wall Mount
уре	Part Number	Description		PFA134
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DH-HAC-HFW1509TP- A-LED 0360B	5MP Full-color Starlight HDCVI Bullet Camera		
IP Camera	DH-HAC-HFW1509TN- A-LED 0360B		<u>کی</u>	
Camera	DH-HAC-HFW1509TP- LED 0360B			
	DH-HAC-HFW1509TN- LED 0360B			
	PFA134 + PFA152-E	Water-proof Junction Box + Pole Mount Bracket	Dimensions (mm[i	nch])
	PFA134	Water-proof Junction Box	174.5	[6.87]
ssories	PFM820 (Only 1080P and below are available)	UTC Controller Passive HDCVI Balun	99 [3.90]	
5501165	PFM800-E			
	PFM800-4K	Passive Video Balun		
	PFM907	Integrated Mount Tester	84 [3.31]	
	PFM320D	12V 2A DC power adapter	≪	►

Accessories

Optional:



PFA134 + PFA152-E

+ Pole Mount Bracket

PFA134 Water-proof Junction Box Water-proof Junction Box



PFM820 UTC Controller



PFM800-E Passive HDCVI Balun



PFM320D 12V 2A DC power adapter



PFM800-4K Passive Video Balun



PFM907 Integrated Mount Tester





