

DH-HAC-HFW1409TLM(-A)-LED

4MP Full-color Starlight HDCVI Bullet Camera



- · Full-color starlight
- · 40 m LED distance
- · Max. 25fps@4MP
- · CVI/CVBS/AHD/TVI switchable
- · Built-in mic (-A)
- · 3.6 mm fixed lens
- · IP67, 12V±30% DC











System Overview

Experience 4MP 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 40 m (131.23 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 two 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 4MP 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-HFW1409TLM(-A)-LED

Technical S	pecification				
Camera					
Image Sensor		1/2.7 inch CMOS			
Effective Pixels		2560 (H) × 1440 (V), 4MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25s-1/100000s NTSC: 1/30s-1/100000s			
S/N Ratio		>65dB			
Minimum Illumination		0.02Lux/F1.2, 0Lux White Light on			
Fill Light (White Light) Distance		Distance up to 40 m (131.23 ft)			
Fill Light On/Off Control		Auto; manual			
Fill Light Number		2			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–180° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		3.6 mm			
Max. Aperture		F1.2			
Field of View		3.6 mm: 97° × 81° × 43° (diagonal × horizontal × vertical			
Iris Type		Fixed iris			
Close Focus Distance		3.6 mm: 2.1 m (6.89 ft)			
DORI	Lens	Detect	Observe	Recognize	Identify
DOM			22.0	400	

Distance

Frame Rate	CVI: PAL: 4M@25fps,1080P@25fps; NTSC: 4M@30fps,1080P@30fps AHD: PAL: 4M@25fps; NTSC: 4M@30fps TVI: PAL: 4M@25fps; NTSC: 4M@30fps CVBS: PAL: 960H; NTSC: 960H
Resolution	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

80.0 m

(262.5 ft)

3.6 mm

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 5.0W (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	Metal front cover + plastic main body + metal bracket	
Camera Dimensions	198.4 mm × 80.2 mm × 76.2 mm (7.81" × 3.16" × 3.00")	
Net Weight	0.29 Kg (0.64 lb)	
Gross Weight	0.44 Kg (0.97 lb)	

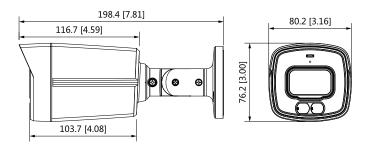


Lite Plus Series | DH-HAC-HFW1409TLM(-A)-LED

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-HAC- HFW1409TLMP-A-LED 0360B				
	DH-HAC- HFW1409TLMN-A-LED 0360B	4MP Full-color Starlight HDCVI Bullet Camera			
	DH-HAC- HFW1409TLMP-LED 0360B				
	DH-HAC- HFW1409TLMN-LED 0360B				
Accessories	PFA134 + PFA152-E	Junction Box+Pole Mount Bracket			
	PFA134	Junction Box			
	PFM800-4K	Passive Video Balun			
	PFM904	Integrated Mount Tester			
	PFM321D	12V 1A DC power adapter			

Wall Mount	Junction Mount	Pole Mount	
	PFA134	PFA134+PFA152-E	
		0	

Dimensions (mm[inch])



Accessories

Optional:









PFA134 + PFA152-E Junction Box +Pole Mount Bracket

PFA134 Junction Box

Integrated Mount Tester







PFM800-4K Passive Video Balun





Rev 001.001