

DH-HAC-HFW1509CL(-A)-LED

5MP Full-color HDCVI Bullet Camera





System Overview

Lite Series is suitable for users who require high quality monitoring products with reasonable prices. Its low cost and high performance make it an ideal choice for residential and small-medium business applications.This series offers an option of a wide range of technologies such as Full-color and Starlight, providing various solutions for different scenarios.

Functions

Full-color

Full-color camera adopts large aperture lens and high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera provides 24/7 color monitoring that collects clear and vivid information, significantly increasing probability of gathering valid human, vehicle, and event evidence that can be used for further intelligent analysis.

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.

Warm Supplemental lights

With warm supplemental LED lights, the camera is able to provide a coloful and vivid image even in total darkness. 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.

The parameters and datasheets below can only be applied to 1509-52A series.
In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4 001 000001 0.8 209098 or later version.

- · Max 25 fps@5MP (16:9 video output)
- · 24/7 color imaging
- · 20 m illumination distance
- · CVI/CVBS/AHD/TVI switchable
- \cdot 3.6 mm fixed lens
- · IP67, 12 VDC
- · Built-in mic (-A)



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 XVR, such as sending control signal or triggering alarm. Moreover, HDCVI technology supports PoC for construction flexibility.

* Audio input is available for some models of HDCVI cameras

Long Distance Transmission

HDCVI technology guarantees real-time transmission at long distance without any loss. It supports up to 700 m transmission for 2MP/5MP/8MP 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.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camera					
Image Sensor		5 MP CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
Pixel		5 MP			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s			
S/N Ratio		> 65 dB			
Min. Illumination		0.005 lux/F1.6, 0 lux white light on			
Illumination Distance		20 m (65.61 ft)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		2			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		3.6 mm			
Max. Aperture		F1.6			
Field of View		3.6 mm: Horizontal: 90°; Vertical: 48°; Diagonal: 104°			
Iris Control		Fixed iris			
Close Focus Distance		3.6 mm: 1.5 m (4.92 ft);			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	3.6 mm	77.8 m (255.25 ft)	31.1 m (102.03 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)
N (* 1					

Video

Video Frame Rate	CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080P@30 fps AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps CVBS: PAL: 960H; NTSC: 960H
Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080P (1920 × 1080); 960H (960 × 576/960 × 480)
BLC	BLC/HLC/DWDR
WDR	DWDR
White Balance	Auto; Area white balance
Gain Control	Auto; manual
Noise Reduction	2D NR
Smart Light	Yes

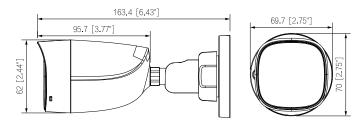
Mirror	Off/On	
Privacy Masking	Off/On (8 area, rectangle)	
Certifications		
Certifications	CE (EN55032, EN55024, EN50130-4, EN62368-1) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL60950-1+CAN/CSA C22.2 No.60950-1)	
Port		
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Audio Input	One channel built-in MIC (-A)	
Power		
Power Supply	12 VDC±30%	
Power Consumption	Max 3.5 W (12 VDC, warm 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	Plastic throughout the whole casing	
Camera Dimensions	163.4 mm × 69.7 mm × 70.0 mm (6.4" × 2.75" × 2.75")	
Net Weight	0.26 kg (0.57 lb)	
Gross Weight	0.4 kg (0.88 lb)	

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Ordering Information

Туре	Part Number	Description	
5MP Camera	DH-HAC-HFW1509CLP- LED	5MP Full-color HDCVI Bullet Camera, PAL	
	DH-HAC- HFW1509CLN-LED	5MP Full-color HDCVI Bullet Camera, NTSC	
	DH-HAC-HFW1509CLP- A-LED	5MP Full-color HDCVI Bullet Camera, PAL	
	DH-HAC- HFW1509CLN-A-LED	5MP Full-color HDCVI Bullet Camera, NTSC	
Accessories	PFA134	Junction box	
	PFA130-E	Water-proof Junction Box	
	PFA152-E	Pole Mount Bracket (For use with PFA130-E Water-proof Junction Box)	
	PFM800-4K	Passive HDCVI Balun	
	PFM321D	12V 1A Power Adapter	
	PFM904	Integrated Mount Tester	

Dimensions (mm[inch])



Accessories

Optional:



PFA134 Junction Box



PFA130-E Water-proof Junction Box



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PFM321D 12V 1A Power Adapter



PFA152-E

Pole Mount Bracket

(For use with PFA130-E Water-proof Junction Box)

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	
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