

# DH-HAC-HFW1509T-A-LED

5MP Full-color HDCVI Fixed-focal Bullet Camera





#### **Series Overview**

The Lite Series is a great choice for consumers looking for high quality monitoring products at a reasonable price. Its low cost and high performance make it ideal for residential areas and SMB solutions. This series is equipped with a wide range of technologies, such as full-color and starlight, providing various solutions for different scenarios.

#### **Functions**

#### **Full-color**

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 color monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

#### **Wide Dynamic Range**

With its advanced Wide Dynamic Range technology (WDR), the camera captures highly detailed images and produces high-definition recordings in high-contrast lighting conditions, and in scenes with backlighting or shadows.

#### **Smart Light+**

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

- \* The parameters and datasheets below can only be applied to 1509-S3 series.
- \* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.000001.0.R.200908 or later version
- Max 25 fps@5MP (16:9 video output)
- · Super Adapt, 120 dB true WDR, 3D NR
- · 24/7 color imaging
- · Smart Light+.
- · Built-in Mic.
- · 30 m illumination distance
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- · IP67, 12 VDC















#### **Broadcast-quality Audio**

Audio signal transmission over coaxial cables is supported by the HDCVI camera. It adopts a unique audio processing and transmission technology that restores source audio and eliminates noise, ensuring the quality and reliability of the audio information that is collected. This becomes important for video surveillance applications that use audio information as a type of supplementary evidence.

#### **Super Adapt**

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

### Advanced 3DNR

Dahua's advanced 3DNR technology reduces image noise with little to no impact on image sharpness, especially in poor lighting conditions. It detects the noise, and compares the sequential frames to effectively reduce the noise. It also makes efficient use of bandwidth, saving on storage space.

# Protection (IP67, Wide Voltage)

IP67: The camera passed a series of rigorous dust and immersion tests. Its enclosure is both dust-proof and waterproof, and can function normally while being immersed in 1 m deep water for up to 30 minutes.

Wide voltage: The camera has  $\pm 30\%$  input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

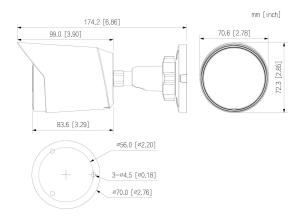
Technical Specification							Resolution	5M (2880 × 1620); TVI 5M 16:9 (2960 × 1665); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Camera								
Image Sensor1		5 MP CMOS					Day/Night	Color
Max. Resolution		2880 (H) × 1620 (V)					BLC	BLC; HLC; WDR; HLC-Pro
Scanning System		Progressive					WDR	120 dB
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s; NTSC: 1/4 s-1/100,000 s					White Balance	Auto;Area white balance
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0 lux (Illuminator on)					Gain Control  Noise Reduction	Auto/Manual 3D NR
S/N Ratio		>65 dB					Illumination Mode	Smart Light
Illumination Distance		30 m (98.43 ft)					Defog	Electronic defog
Illuminator On/Off Control		Auto/Manual					Digital Zoom	4×
Illuminator Number		2 (Warm light)					Mirror	Yes
mummator Number		Pan: 0°–360°					Privacy Masking	Off/On (8 areas, rectangle)
Angle Adjustment		Tilt: 0°–90° Rotation: 0°–360°					Certification	, , , , ,
Lens							Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Lens Type		Fixed-focal					Audio	
Auto Focus		No					Built-in Mic	Yes
Lens Mount		M12					Port	
Focal Length		2.8 mm; 3.6 mm						Video output choices of CVI/TVI/AHD/CVBS by one BNC
Max. Aperture		F1.0					Video Output	port
Field of View		2.8 mm: H: 112°; V: 57°; D: 132° 3.6 mm: H: 88°; V: 46°; D: 104°					Alarm Output	1 channel
Iris Control		Fixed					Power	
Close Focus Distance		2.8 mm: 1.6 m (5.25 ft) 3.6 mm: 2.3 m (7.55 ft)					Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
	Lens	Detect	Observe	Recognize	Identify		Power Consumption	Max 5.5 W(12 VDC, LED on)
	2.8 mm	67.4 m	27.0 m	13.5 m	6.7 m		Environment	
	2.0 11111	( 221.13 ft)	( 88.58 ft)	( 44.29 ft)	( 21.98 ft)		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI	3.6 mm	80.0 m ( 262.47 ft)	32.0 m ( 104.99 ft)	16.0 m ( 52.49 ft)	8.0 m ( 26.25 ft)		Operating Humidity	<95% (RH), non-condensing
Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and						Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
							Storage Humidity	<95% (RH), non-condensing
							Protection	IP67
	commissionir	commissioning manual/project design tool.					Anti-corrosion Level	Basic Protection
Video							Structure	
		CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25					Casing Material	Metal
Video Frame Rate		fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI:					Product Dimensions	174.2 mm × 70.6 mm × 72.3 mm (6.86" × 2.78" × 2.85")
							Net Weight	0.37 kg (0.82 lb)
							Gross Weight	0.48 kg (1.06 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount
		PAL: 5M 16:9@20 fps; 4M@25 fps NTSC: 5M 16:9@20 fps; 4M@30 fps CVBS: PAL: 960H NTSC: 960H						

# Lite Series | DH-HAC-HFW1509T-A-LED

Ordering Information							
Туре	Model	Description					
HDCVI CAMERA	DH-HAC-HFW1509TP-A-LED	5MP Full-color HDCVI Fixed- focal Bullet Camera, PAL					
HDCVI CAMERA	DH-HAC-HFW1509TN-A-LED	5MP Full-color HDCVI Fixed- focal Bullet Camera, NTSC					
	DH-PFA151	Corner mount bracket					
	G3416GW	G3/4" Water Joint					
	DH-PFA130-E	Water-proof Junction Box					
	DH-PFA152-E	Pole Mount Bracket					
	DH-PFA134	Junction box					
Accessories (Optional)	DH-PFM800-4K	1 Channel Passive HDCVI Balun					
	DH-PFM321-EN	DC12V1A power adapter					
	DH-PFM321D-EN	DC12V 1A power adapter					
	DH-PFM320D-EN	DC12V2A power adapter					
	PFM904	Integrated Mount Tester					

Ceiling Mount	Junction Mount	Pole Mount(Vertical)
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# Dimensions (mm[inch])



# **Accessories**

#### Optional:







DH-PFA151 Corner mount bracket

G3416GW G3/4" Water Joint

DH-PFA130-E Water-proof Junction Box







DH-PFA152-E Pole Mount Bracket

DH-PFA134 Junction box

DH-PFM800-4K 1 Channel Passive HDCVI Balun







DH-PFM321-EN

DH-PFM321D-EN

DH-PFM320D-EN DC12V1A power adapter DC12V 1A power adapter DC12V2A power adapter



PFM904 Integrated Mount Tester