

DH-HAC-HFW1809T-A-LED

4K Full-Color HDCVI Bullet Camera





System 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.

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.

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.

- · Max. 15 fps@4K.
- 120 dB true WDR, 3D NR.
- · 24/7 color imaging.
- 20 m illumination distance.
- · Super Adapt.
- · Built-in MIC(-A).
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- IP67, 12 VDC.













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.

Smart Warm Light Illumination

In dark environments, the camera produces vivid images in rich color through its warm LED lights. With its smart light mode setting, it automatically adjusts its exposure time and light sensitivity to avoid the overexposure of objects in the center of the image.

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							BLC	BLC; HLC; WDR; HLC-Pro
Camera							WDR	120 dB
Pixel		8 MP					White Balance	Auto; Area white balance
Image Sensor		4K CMOS					Gain Control	Auto
Max. Resolution		3840 (H) × 2160 (V)					Noise Reduction	3D NR
Scanning System		Progressive					Illumination Mode	Smart Light
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					Defog	Electronic defog
Min. Illumination		0.001 lux@F1.0 (Color)					Digital Zoom	4×
		0 lux (Illuminator on)					Mirror	Yes
S/N Ratio		>65 dB					Privacy Masking	Off/On (8 areas, rectangle)
Illumination Distance		20 m (65.62 ft)					Certification	
Illuminator On/Off Control Illuminator Number		Auto/Manual 1 (Warm light)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Port	01. 0E02500 1
Lens							Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens Type		Fixed-focal					Audio Input	One channel built-in MIC
Lens Mount		M12					Power	
Focal Length		2.8 mm; 3.6 mm					Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
Max. Aperture		F1.0					Power Consumption	Max. 5 W (12 VDC, LED on)
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°					Structure	
Iris Control		Fixed					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Close Focus Distance		2.8 mm: 3.5 m (11.48 ft) 3.6 mm: 4.5 m (14.76 ft)					Operating Humidity	<95% (RH), non-condensing
DORI Distance	Lens	Detect	Observe	Recognize	Identify		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.8 mm	91.0 m (298.56 ft)	36.4 m (119.42 ft)	18.2 m (59.71 ft)	9.1 m (29.86 ft)		Protection	IP67
	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.47 ft)		Casing Material	Metal
	*DORI (Detec	*DORI (Detect, Observe, Recognize, Identify) is a standard system					Product Dimensions	174.5 mm × 70.6 mm × 72.3 mm (6.87" × 2.78" × 2.85")
	(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 commissioning manual/						Packaging Dimensions	205 mm × 91 mm × 91 mm (8.07" × 3.58" × 3.58")
							Net Weight	0.36 kg (0.79 lb)
project design		1 1001.					Gross Weight	0.48 kg (1.06 lb)
Video cvi:						Installation	Wall mount; ceiling mount; vertical pole mount	
Video Frame Rate		PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; AHD: PAL: 4K@15 fps; NTSC: 4K@15 fps; TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; CVBS: PAL: 960H; NTSC: 960H						
		41/ /2040 24/00 51/ /2020 4/00 1						

4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 960 H (960 × 576/960 × 480)

Color

Resolution

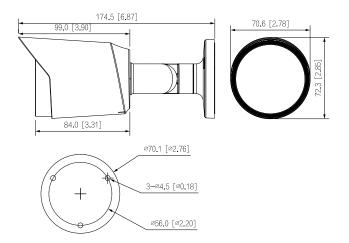
Day/Night

Lite Series | DH-HAC-HFW1809T-A-LED

Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC-HFW1809TP- A-LED	4K Full-Color HDCVI Bullet Camera, PAL					
4K Camera	DH-HAC-HFW1809TN- A-LED	4K Full-Color HDCVI Bullet Camera, NTSC					
	PFA130-E	Water-proof Junction Box					
	PFA134	Junction box					
Accessories	PFA152-E	Pole Mount Bracket					
(Optional)	PFM800-4K	1-CH Passive Video Balun					
	PFM321D	12V 1A Power Adapter					
	PFM904	Integrated Mount Tester					

Ceiling Mount Junction Mount Pole Mount(Vertical)

Dimensions (mm[inch])



Accessories

Optional:







PFA134 Junction Box



PFA152-E Pole Mount Bracket



PFM800-4K 1-CH Passive Video Balun



PFM321D 12V 1A Power Adapter



Integrated Mount Tester