

DH-HAC-HFW1809TLM-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.
- 40 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 ±30% input voltage tolerance (for some power supplies) and a wide voltage range, making it suitable for a variety of outdoor scenarios.

Lite Series | DH-HAC-HFW1809TLM-A-LED

Technical Specification

	•				
Camera					
Pixel		8 MP			
Image Sensor		8MP CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s			
Min. Illumination		0.001 lux@F1.0 (Color) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		40 m (131.23 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		2 (Warm light)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.0			
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 3.5 m (11.48 ft) 3.6 mm: 4.5 m (14.76 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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)
	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)
	*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				

(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/ project design tool.

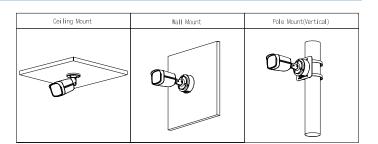
Video

Video Frame Rate	CVI: 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; CVBS: PAL: 960H; NTSC: 960H	
Resolution	4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 960 H (960 × 576/960 × 480)	
Day/Night	Color	

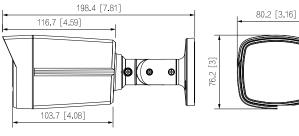
BLC; HLC; WDR; HLC-Pro				
120 dB				
Auto; Area white balance				
Auto				
3D NR				
Smart Light				
Electronic defog				
4x				
Yes				
Off/On (8 areas, rectangle)				
CE (EN55032:2015, EN61000-3-2:2014, EN61000- 3-3:2013, EN55024:2010+A1:2015, EN55035:2017, EN50130-4:2011+A1:2014, EN62368-1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)				
Video output choices of CVI/TVI/AHD/CVBS by one BNC port				
One channel built-in MIC				
12 VDC \pm 30% (It is recommended to use a power adapter to supply the power for one camera)				
Max 6.9 W (12 VDC, LED on)				
-40 °C to +60 °C (-40 °F to +140 °F)				
<95% (RH), non-condensing				
-40 °C to +60 °C (-40 °F to +140 °F)				
IP67				
Structure				
Metal front cover + plastic rear barrel + metal bracket				
198.4 mm × 80.2 mm × 76.2 mm (7.81" × 3.16" × 3.00")				
240 mm × 115 mm × 111 mm (9.45" × 4.53" × 4.37")				
0.33 kg (0.73 lb)				
0.49 kg (1.08 lb)				
Wall mount; ceiling mount; vertical pole mount				

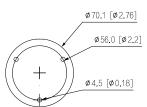
Lite Series | DH-HAC-HFW1809TLM-A-LED

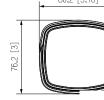
Ordering Information					
Туре	Part Number	Description			
4K Camera	DH-HAC-HF- W1809TLMP-A-LED	4K Full-Color HDCVI Eyeball Camera, PAL			
	DH-HAC-HF- W1809TLMN-A-LED	4K Full-Color HDCVI Eyeball Camera, NTSC			
	PFA130-E	Junction box			
	PFA134	Junction box			
Accessories	PFA152-E	Pole Mount Bracket			
(Optional)	PFM800-4K	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			

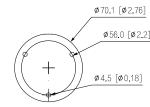


Dimensions (mm[inch])











Optional:

Accessories

PFA130-E Junction box



PFM800-4K Passive HDCVI Balun



box

PFM321D 12V 1A Power Adapter



-0



PFM904 Integrated Mount Tester

© 2024 Dahua. All rights reserved. Design and specifications are subject to change without notice. The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product. Rev 002.000

www.dahuasecurity.com