

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.

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Technical Specification

Camera

Pixel 8 MP Image Sensor 4K 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					
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					
Scanning System Progressive Electronic Shutter Speed PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					
Electronic Shutter Speed PAL: 1/3 s-1/100000 s NTSC: 1/4 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 20 m (65.62 ft)					
Illuminator On/Off Control Auto/Manual	Auto/Manual				
Illuminator Number 1 (Warm light)	1 (Warm light)				
Pan/Tilt/Rotation RangePan: 0°-360°Tilt: 0°-90°Tilt: 0°-90°Rotation: 0°-360°Rotation: 0°-360°	Tilt: 0°–90°				
Lens					
Lens Type Fixed-focal	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	Fixed				
Close Focus Distance 2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (9.19 ft)					
Lens Detect Observe Recognize Identif	ý				
DORI 2.8 mm 91.0 m 36.4 m 18.2 m 9.1 m Distance (298.56 ft) (119.42 ft) (59.71 ft) (29.86					
3.6 mm 107.6 m 43.0 m 21.5 m 10.8 r (353.02 ft) (141.08 ft) (70.54 ft) (35.47					

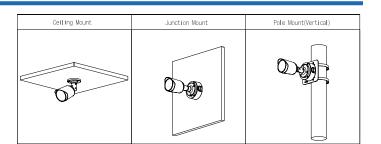
Video

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; NTSC: 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	BLC; HLC; WDR; HLC-Pro	
WDR	120 dB	
White Balance	Auto; Area white balance	
Gain Control	Auto	

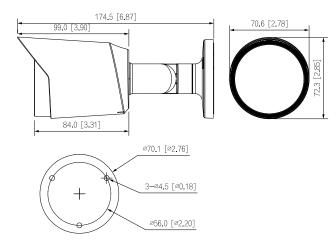
Noise Reduction	3D NR	
Illumination Mode	Smart Light	
Defog	Electronic defog	
Digital Zoom	4×	
Mirror	Yes	
Privacy Masking	Off/On (8 areas, rectangle)	
Certification		
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035; FCC: 47 CFR FCC Part 15, Subpart B; UL: UL62368-1 + CAN/CSA C22.2 No. 62368-1-14	
Port		
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port	
Audio Input	One channel built-in MIC	
Power		
Power Supply	12 VDC \pm 30% (It is recommended to use a power adapter to supply the power for one camera)	
Power Consumption	Max. 5 W (12 VDC, LED on)	
Structure		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	<95% (RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67	
Casing Material	Metal	
Product Dimensions	174.5 mm × 70.6 mm × 72.3 mm (6.87" × 2.78" × 2.85")	
Packaging Dimensions	205 mm × 91 mm × 91 mm (8.07" × 3.58" × 3.58")	
Net Weight	0.36 kg (0.79 lb)	
Gross Weight	0.48 kg (1.06 lb)	
Installation	Wall mount; ceiling mount; vertical pole mount	

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Ordering Information					
Туре	Part Number	Description			
	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			



Dimensions (mm[inch])



Accessories

Optional:



PFA130-E Water-proof Junction Box



PFM800-4K 1-CH Passive Video Balun



PFA134 Junction Box



PFM321D 12V 1A Power Adapter



PFA152-E Pole Mount Bracket



PFM904 Integrated Mount Tester

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