

# DH-HAC-HDW1809T-A-LED





#### **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.

WDR

White Balance

Gain Control

120 dB

Auto

Auto; Area white balance

Technical Specification						Noise Reduction	3D NR
Camera						Illumination Mode	Smart Light
Pixel		8 MP				Defog	Electronic defog
Image Sensor		8MP CMOS				Digital Zoom	4×
Max. Resolution		3840 (H) × 2160 (V)				Mirror	Yes
Scanning System		Progressive				Privacy Masking	Off/On (8 areas, rectangle)
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s				Certification	
Min. Illumination		0.001 lux@F1.0 (Color) 0 lux (Illuminator on)				Certifications	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)
S/N Ratio		>65 dB					
Illumination Distance		40 m (131.23 ft)				Port	
Illuminator On/Off Control		Auto/Manual				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Illuminator Number		2 (Warm light) Pan: 0°–360°				Audio Input	One channel built-in MIC
Pan/Tilt/Rotation Range		Fall: 0 -58° Tilt: 0°-78° Rotation: 0°-360°				Power	
Lens						Power Supply	12 VDC ± 30% (It is recommended to use a power adapte to supply the power for one camera)
Lens Type		Fixed-focal				Power Consumption	Max 6.9 W (12 VDC, LED on)
Lens Mount		M12				Environment	
Focal Length		2.8 mm; 3.6 mm				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		F1.0				Operating Humidity	<95% (RH), non-condensing
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed				Protection	IP67
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft) 3.6 mm: 2.8 m (9.19 ft)				Structure	
	Lens	Detect	Observe	Recognize	Identify	Casing Material	Metal
DORI	2.8 mm	91.0 m	36.4 m	18.2 m	9.1 m	Product Dimensions	$\phi$ 106.0 mm × 93.6 mm ( $\phi$ 4.17" × 3.69")
Distance		(298.56 ft) 107.6 m	(119.42 ft) 43.0 m	(59.71 ft) 21.5 m	(29.86 ft) 10.8 m	Packaging Dimensions	148 mm × 139 mm × 137 mm (5.83" × 5.47" × 5.39")
	3.6 mm	(353.02 ft)	(141.08 ft)	(70.54 ft)	(35.47 ft)	Net Weight	0.5 kg (1.10 lb)
Video				Gross Weight	0.67 kg (1.48 lb)		
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				Installation	Wall mount; ceiling mount; vertical pole mount
Resolution		4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 960 H (960 × 576/960 × 480)					
Day/Night		Color					
Day/Night							

# Lite Series | DH-HAC-HDW1809T-A-LED

Ordering Information								
Туре	Part Number	Description						
4K Camera	DH-HAC-HDW1809TP- A-LED	4K Full-Color HDCVI Eyeball Camera, PAL						
4K Camera	DH-HAC-HDW1809TN- A-LED	4K Full-Color HDCVI Eyeball Camera, NTSC						
	PFA130-E	Junction box						
	PFB204W	Wall Mount Bracket						
	PFA152-E	Pole Mount Bracket						
Accessories	PFA106	Adapter Plate of Mini Dome & Eyeball Camera						
(Optional)	PFB220C	Ceiling Mount Bracket of Mini Dome & Eyeball Camera						
	PFM800-4K	Passive HDCVI Balun						
	PFM321D	12V 1A Power Adapter						
	PFM904	Integrated Mount Tester						

Junction Mount	Celling Mount	Wall Mount	
Pole Mount(Vertical)			

# Dimensions (mm[inch])

### Accessories

## Optional:



PFA130-E Junction Mount



PFB204W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFB220C Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM800-4K 1-CH Passive Video Balun



Adapter



PFM904 Integrated Mount Tester



