

DH-HAC-HDW1809T-A-LED

4K Full-Color HDCVI Eyeball 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-HDW1809T-A-LED

Technical Specification

Camera	
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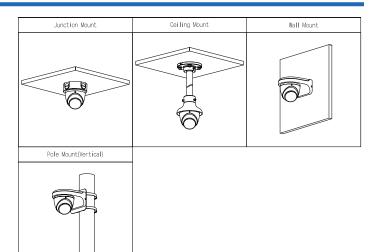
Camera						
Pixel		8 MP				
Image Sensor		8MP CMOS				
Max. Resolution		3840 (H) × 2160 (V)				
Scanning System		Progressive				
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s				
Min. Illumination		0.001 lux@F1.0 (Color) 0 lux (Illuminator on)				
S/N Ratio		>65 dB				
Illumination 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°–78° 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)				
	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)	
DORI	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)	
Distance	(EN-62676-4) distinguish pe this table do r	I (Detect, Observe, Recognize, Identify) is a standard system 2676-4) for defining the ability of a person viewing the video to guish persons or objects within a covered area. The numbers in ble do not reflect intelligent function distances. For intelligent on distances, refer to installation and commissioning manual/ t design tool.				
Video						
		CVI:				

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	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 (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)
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 6.9 W (12 VDC, LED on)
Environment	
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
Structure	
Casing Material	Metal
Product Dimensions	φ106.0 mm × 93.6 mm (φ4.17" × 3.69")
Packaging Dimensions	148 mm × 139 mm × 137 mm (5.83" × 5.47" × 5.39")
Net Weight	0.5 kg (1.10 lb)
Gross Weight	0.67 kg (1.48 lb)
Installation	Wall mount; ceiling mount; vertical pole mount

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Ordering Information					
Туре	Part Number	Description			
4K Camera	DH-HAC-HDW1809TP- A-LED	4K Full-Color HDCVI Eyeball Camera, PAL			
	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			



Dimensions (mm[inch])

Accessories

Optional:



PFA130-E Junction Mount



PFA106 Adapter Plate of Mini Dome & Eyeball Camera



PFM321D 12V 1A Power Adapter



PFB204W Wall Mount Bracket



PFA152-E

Pole Mount

Bracket

PFB220C Ceiling Mount Bracket of Mini Dome & Eyeball Camera

PFM904

Integrated

Mount Tester



PFM800-4K 1-CH Passive Video Balun

