

DH-HAC-HDW1809TLM-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.

Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

- · 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.















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.

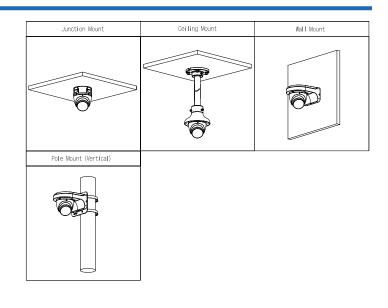
Protection (IP67, wide voltage)

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 Senso	r	8MP 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) 0 lux (Illuminator on)					Digital Zoom	4×
S/N Ratio		>65 dB					Mirror	Yes
Illumination Distance		20 m (65.62 ft)					Privacy Masking	Off/On (8 areas, rectangle)
Illuminator On/Off Control		Auto/Manual					Certification	
Illuminator N	Illuminator Number Pan/Tilt/Rotation Range		1 (Warm light) Pan: 0°–360° Tilt: 0°–78°				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)
		Rotation: 0°–360°					Port	
Lens Type			Fixed-focal				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Lens Mount	Lens Mount		M12				Audio Input	One channel built-in MIC
Focal Length			2.8 mm; 3.6 mm				Power	
_	Max. Aperture		F1.0				Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
Field of View	Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°				Power Consumption	Max 5 W (12 VDC, LED on)
Iris Control	Iris Control		Fixed				Environment	
Close Focus Distance		2.8 mm: 3.5 m (11.48 ft)					Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	Lens	3.6 mm: 4.5 n Detect	Observe	Recognize	Identify		Operating Humidity	<95% (RH), non-condensing
	2.8 mm	91.0 m	36.4 m	18.2 m	9.1 m		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
		(298.56 ft) 107.6 m	(119.42 ft) 43.0 m	(59.71 ft) 21.5 m	(29.86 ft) 10.8 m	(29.86 ft) 10.8 m	Protection	IP67
DORI Distance	3.6 mm	(353.02 ft)	(141.08 ft)	(70.54 ft)			Structure	
Distance	(EN-62676-4)	DORI (Detect, Observe, Recognize, Identify) is a standard system EN-62676-4) for defining the ability of a person viewing the video to istinguish persons or objects within a covered area. The numbers in his table do not reflect intelligent function distances. For intelligent					Casing Material	Metal
	this table do n						Product Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")
	function distances, refer to installation and commissioning manual/ project design tool.						Packaging Dimensions	122 mm × 119 mm × 111 mm (4.80" × 4.69" × 4.37")
Video						Net Weight	0.33 kg (0.73 lb)	
		CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps;					Gross Weight	0.48 kg (1.06 lb)
Video Frame	Video Frame Rate		NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; AHD: PAL: 4K@15 fps; NTSC: 4K@15 fps; TVI: PAL: 4K@15 fps; TVI: PAL: 4K@15 fps; VTSC: 4K@15 fps; 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	Day/Night		Color					

Lite Series | DH-HAC-HDW1809TLM-A-LED

Ordering Information							
Туре	Part Number	Description					
4K Camera	DH-HAC-HD- W1809TLMP-A-LED	4K Full-Color HDCVI Eyeball Camera, PAL					
4K Camera	DH-HAC-HD- W1809TLMN-A-LED	4K Full-Color HDCVI Eyeball Camera, NTSC					
	PFA13A-E	Junction box					
	PFB205W	Wall Mount Bracket					
	PFA152-E	Pole Mount Bracket					
Accessories	PFA106	Ceiling Mount Bracket					
(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:



PFA13A-E Junction box



PFB205W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Ceiling Mount Bracket



PFB220C Ceiling Mount Bracket of Mini Dome & Eyeball Camera



PFM800-4K Passive HDCVI Balun



12V 1A Power

Adapter



PFM904 Integrated Mount Tester

