

DH-HAC-HDW1801TLM(-A)

4K Starlight HDCVI Fixed IR 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

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.

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 IR Illumination

With its IR illumination, the camera provides optimal performance in low light conditions, ensuring uniformity in the brightness of B/W images. Through its smart IR technology, the camera also compensates for the distance of targets by adjusting the intensity of its IR LEDs, preventing overexposure of images as targets move closer to the camera.

- * The parameters and datasheets below can only be applied to 1801-S2 series.
- · Max. 15 fps@4K.
- 120 dB true WDR, 3D NR.
- · Smart IR Illumination.
- · 30 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.













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.

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.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals (video, audio*, data and power) which are simultaneously transmitted over a coaxial cable. Dual-way data transmission allows the HDCVI camera to interact with the XVR to perform various actions such as sending control signals and triggering alarms. HDCVI technology also supports PoC, which makes the camera easy and quick to install.

* Audio input is available for select HDCVI camera models.

Long Distance Transmission

HDCVI technology provides long distance transmission in real time without transmission loss. It supports transmission distances up to 700 m for 2-MP/5-MP/8-MP HD videos through coaxial cables, and up to 300 m through UTP cables. The results were obtained and verified through rigorous testing in Dahua's test laboratory.

Lite Series | DH-HAC-HDW1801TLM(-A)

Day/Night

BLC

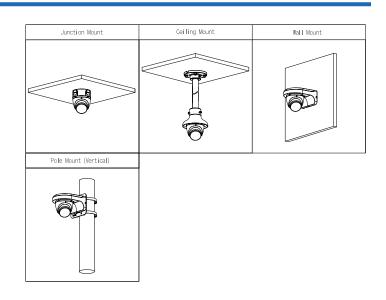
Auto(ICR)/Color/B/W

BLC; HLC; WDR; HLC-Pro

Technical Specification						WDR	120 dB
Camera						White Balance	Auto;Area white balance
Pixel		8 MP				Gain Control	Auto/Manual
Image Sensor		4K CMOS				Noise Reduction	3D NR
Max. Resolution		3840 (H) × 2160 (V)				Smart Illumination	Smart IR
Scanning System		Progressive				Defog	Electronic defog
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s				Mirror	Yes
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)				Privacy Masking Certification	Off/On (8 areas, rectangle)
S/N Ratio		0 lux (Illuminator on) >65 dB				cerumouton	CE-LVD: EN 62368-1;
Illumination Distance		30 m (98.43 ft)				Certifications	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
Illuminator On/Off Control		Auto/Manual				Port	,
Illuminator Number		1 (IR light)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				·	port
Tally Hit/Notation Range		Rotation: 0°–360°				Audio Input	One channel built-in MIC (-A)
Lens						Power	
Lens Type		Fixed-focal				Power Supply	12 VDC ± 30%
Lens Mount		M12				Power Consumption	Max 4.7 W (12 VDC, IR on)
Focal Length		2.8 mm; 3.6 mm				Environment	
Max. Aperture		F2.0				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		2.8 mm: H: 106°; V: 56°; D: 125°				Operating Humidity	<95% (RH), non-condensing
		3.6 mm: H: 88°; V: 46°; D: 105°				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed				Protection	IP67
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)				Structure	
	Lens	Detect	Observe	Recognize	Identify	Casing Material	Metal
DORI Distance	2.8 mm	88 m	35.2 m	17.6 m	8.8 m	Product Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")
		(288.71 ft) 106.7 m	(115.49 ft) 42.7 m	(57.74 ft) 21.3 m	(28.87 ft) 10.7 m	Packaging Dimensions	121 mm × 118 mm × 109 mm (4.76" × 4.65" × 4.29")
	3.6 mm	(350.07 ft)	(140.09 ft)	(69.88 ft)	(35.10 ft)	Net Weight	0.33 kg (0.73 lb)
Video						Gross Weight	0.47 kg (1.04 lb)
Video Frame Rate		CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps AHD: PAL: 4K@15 fps NTSC: 4K@15 fps				Installation	Wall mount; ceiling mount; vertical pole mount
Resolution		4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080p (1920 x 1080); 960H (960 x 576/960 x 480)					

Lite Series | DH-HAC-HDW1801TLM(-A)

Ordering Information						
Туре	Part Number	Description				
4K Camera	DH-HAC- HDW1801TLMP(-A)	4K HDCVI Fixed IR Eyeball Camera, PAL				
4K Camera	DH-HAC- HDW1801TLMN(-A)	4K HDCVI Fixed IR Eyeball Camera, NTSC				
	PFA13A-E	Junction Box				
	PFB205W-E	Wall Mount Bracket				
	PFA152-E	Pole Mount Bracket				
Accessories	PFA106	Mount Adapter				
(Optional)	PFB220C	Ceiling Mount Bracket				
	PFM800-4K	Passive HDCVI Balun				
	PFM321D	12V 1A Power Adapter				
	PFM904	Integrated Mount Tester				



Accessories

Optional:



PFA13A-E Junction Box



PFA106 Mount Adapter





PFM321D 12V 1A Power Adapter



PFB220C

Ceiling Mount

Bracket

PFB205W-E

Wall Mount

Bracket

PFA152-E

Pole Mount

Bracket

PFM800-4K

Passive HDCVI

Balun

PFM904 Integrated Mount Tester

Dimensions (mm[inch])

