

DH-HAC-HDW1801TLM-IL-A

4K Smart Dual Light HDCVI Fixed-focal 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.

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.

Smart Dual Light

With its smart dual light mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in the rule area to capture clear, vivid images. When the target leaves the rule area, the camera automatically switches over from the white light to the IR light to significantly reduce light pollution.

Super Adapt

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

- * The parameters and datasheets below can only be applied to 1801-IL series.
- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.000004.1.R.220323 or later version.
- · Max. 15 fps@4K.
- · 120 dB true WDR, 3D NR.
- · Smart Dual Light.
- · 20 m illumination distance.
- · Super Adapt.
- · Built-in MIC.
- · 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.

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.

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.

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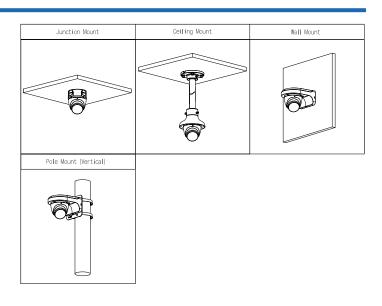
WDR

120 dB

Technical Specification						White Balance	Auto; Area white balance
Camera						Gain Control	Auto/Manual
lmage Sensor		4K CMOS				Noise Reduction	3D NR
Max. Resolution		3840 (H) × 2160 (V)				Illumination Mode	Smart IR&WL WL Mode; IR Mode
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)				Privacy Masking	Off/On (8 areas, rectangle)
		0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Certification	
S/N Ratio		>65 dB				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
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)					
lluminator Or	/Off Control	Auto/Manual				Port	
Illuminator Number		1 (Warm light); 1 (IR light)				Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				Audio Input	One channel built-in MIC
Long		Rotation: 0°–360°				Power	
Lens		Fixed-focal				Power Supply	12 VDC ± 30%
Lens Type Lens Mount		Hixeo-Tocal M12				Power Consumption	Max 4.2 W (12 VDC, LED on)
		2.8 mm; 3.6 mm				Environment	
Focal Length May Aporture		F2.0				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Max. Aperture		2.8 mm: H: 106°; V: 56°; D: 125°				Operating Humidity	<95% (RH), non-condensing
Field of View		3.6 mm: H: 88°; V: 46°; D: 105°				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Iris Control		Fixed				Storage Humidity	<95% (RH), non-condensing
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)				Protection	IP67
	Lens	Detect	Observe	Recognize	Identify	Anti-corrosion Level	Low
DORI Distance	2.8 mm	88 m	35.2 m	17.6 m	8.8 m	Structure	
		(288.71 ft) 106.7 m	(115.49 ft) 42.7 m	(57.74 ft) 21.3 m	(28.87 ft) 10.7 m	Casing Material	Metal
	3.6 mm	(350.07 ft)	(140.09 ft)	(69.88 ft)	(35.10 ft)	Product Dimensions	φ94.0 mm × 85.7 mm (φ3.70" × 3.37")
Video						Net Weight	0.33 kg (0.73 lb)
		CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25				Gross Weight	0.47 kg (1.04 lb)
Video Frame Rate		fps NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4K@15 fps NTSC: 4K@15 fps TVI: PAL: 4K@15 fps NTSC: 4K@15 fps VSC: 4K@15 fps NTSC: 4K@15 fps NTSC: 4K@15 fps NTSC: 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); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)					
Day/Night		Auto(ICR)/Color/B/W					
BLC		BLC; HLC; WI	DR: HLC-Pro				

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Ordering Information						
Туре	Model	Description				
4K Camera	DH-HAC- HDW1801TLMP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL				
4K Camera	DH-HAC- HDW1801TLMN-IL-A	4K Smart Dual Light HDCVI Fixed-focal 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	1 Channel Passive HDCVI Balun				
	PFM321D	12VDC Power Adapter				
	PFM904	Integrated Mount Tester				



Dimensions (mm [inch])

Optional:

Accessories



PFA13A-E Junction Box



PFB205W-E

Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Mount





PFB220C Ceiling Mount Bracket



PFM800-4K 1 Channel Passive HDCVI Balun



PFM321D 12VDC Power Adapter



PFM904 Integrated Mount Tester

