

DH-HAC-HDW1801TLQ(-A)

4K Starlight HDCVI Fixed IR Quick-to-install 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).
- · Quick-to-install eyeball saves installation time
- 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 ±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.

Easy Installation

The camera comes with an easy-to-install eyeball and pedestal, that cuts down on installation time and cost, outranking conventional eyeballs.

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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Technical Specification

Camera

Camera					
Pixel		8 MP			
Image Sensor		4K CMOS			
Max. Resolution		3840 (H) × 2160 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100000 s NTSC: 1/30 s-1/100000 s			
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		30 m (98.43 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		1 (IR 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		F2.0			
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 88°; V: 46°; D: 105°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 1.9 m (6.23 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	88 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)
	3.6 mm	106.7 m (350.07 ft)	42.7 m (140.09 ft)	21.3 m (69.88 ft)	10.7 m (35.10 ft)
Video					
		CVI: PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 1080p@25 fps			

VIGEO					
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 CVBS: PAL: 960H NTSC: 960H					
4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080p (1920 x 1080); 960H (960 x 576/960 x 480)					
Auto(ICR)/Color/B/W					
BLC; HLC; WDR; HLC-Pro					

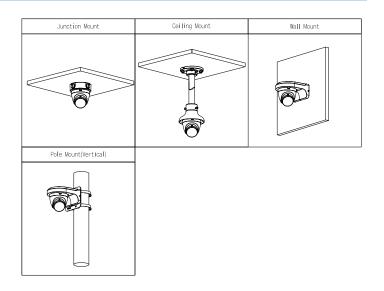
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WDR	120 dB				
White Balance	Auto;Area white balance				
Gain Control	Auto/Manual				
Noise Reduction	3D NR				
Smart Illumination	Smart IR				
Defog	Electronic defog				
Mirror	Yes				
Privacy Masking	Off/On (8 areas, rectangle)				
Certification					
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				
Port					
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port				
Audio Input	One channel built-in MIC (-A)				
Power					
Power Supply	12 VDC ± 30%				
Power Consumption	Max 4.7 W (12 VDC, IR 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 dome + plastic enclosure				
Product Dimensions	φ97.1 mm × 92.9 mm (φ3.82" × 3.66")				
Packaging Dimensions	121 mm × 118 mm × 109 mm (4.76" × 4.65" × 4.29")				
Net Weight	0.21 kg (0.46 lb)				
Gross Weight	0.28 kg (0.62 lb)				
Installation	Wall mount; ceiling mount; vertical pole mount				

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Ordering Information					
Туре	Part Number	Description			
4K Camera	DH-HAC- HDW1801TLQP(-A)	4K HDCVI Fixed IR Quick-to-install Eyeball Camera, PAL			
	DH-HAC- HDW1801TLQN(-A)	4K HDCVI Fixed IR Quick-to-install Eyeball Camera, NTSC			
	PFA13G	Junction Box			
	PFB205W-E	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
Accessories	PFA109	Mount Adapter			
(Optional)	PFB220C	Ceiling Mount Bracket			
	PFM800-4K	Passive HDCVI Balun			
	PFM321D	12V 1A Power Adapter			
	PFM904	Integrated Mount Tester			



Dimensions (mm[inch])

Accessories

Optional:



PFA13G Junction Box



PFA109 Mount Adapter



PFM321D 12V 1A Power Adapter



Wall Mount Bracket

PFB220C

Ceiling Mount

Bracket

PFM904

Integrated Mount

Tester



PFA152-E

Pole Mount

Bracket

PFM800-4K Passive HDCVI Balun

