

DH-HAC-HDW1801TLQ-IL-A

4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera



Series 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

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.

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.

Easy Installation

HDCVI eyeball comes with a quick-to-install pedestal, which makes it easier to install than conventional eyeballs and reduces cost on time and labor.

- * 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.















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.

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.

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.

Technical	Specification	on				WDR	120 dB
Camera					White Balance	Auto;Area white balance	
Image Sensor		4K CMOS				Gain Control	Manual;Auto
Max. Resolution		3840 (H) × 2160 (V)				Noise Reduction	3D NR
Scanning System		Progressive				Illumination Mode	Smart IR&WL WL Mode; IR Mode
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s				Defog	Electronic defog
		NTSC: 1/30 s-1/100,000 s				Mirror	Yes
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				Privacy Masking	Off/On (8 areas, rectangle)
S/N Ratio		>65 dB				Certification	
Illumination Distance		IR: 20 m (65.62 ft) Warm light: 20 m (65.62 ft)				Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Illuminator On/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
Angle Adjustr	nent	Pan: 0°–360° Tilt: 0°–78°				Audio Input	One channel built-in Mic (-A)
, angle / lagastinent		Rotation: 0°–360°				Power	
Lens						Power Supply	12 VDC ± 30%
Lens Type		Fixed-focal				Power Consumption	Max 4.2 W (12 VDC, LED on)
Auto Focus		No				Environment	
Lens Mount		M12				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Focal Length		3.6 mm; 2.8 mm				Operating Humidity	<95% (RH), non-condensing
Max. Aperture		F2.0				Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Field of View		2.8 mm: H: 106°; V: 56°; D: 125° 3.6 mm: H: 88°; V: 46°; D: 105°				Storage Humidity	<95% (RH), non-condensing
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)				Anti-corrosion Level	Basic Protection
	Lens	Detect	Observe	Recognize	Identify	Structure	
DORI	2.8 mm	88 m	35.2 m	17.6 m	8.8 m	Casing Material	Metal dome + plastic enclosure
Distance		(288.71 ft)	(115.49 ft)	(57.74 ft)	(28.87 ft)	Product Dimensions	Φ97.4 mm × 92.4 mm (Φ3.83" × 3.64")
	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)	Net Weight	0.27 kg (0.60 lb)
Video						Gross Weight	0.36 kg (0.79 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				Installation	Wall mount; ceiling mount; vertical pole mount
		NTSC: 4K@ 15 fps CVBS: PAL: 960H NTSC: 960H 4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440);					
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480) Auto(ICR)/Color/B/W					
Day/Night							
BLC		BLC; HLC; WDR; HLC-Pro					

Lite Series | DH-HAC-HDW1801TLQ-IL-A

Ordering Information								
Туре	Model	Description						
	DH-HAC-HDW1801TLQP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera, PAL						
HDCVI CAMERA	DH-HAC-HDW1801TLQN-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera , NTSC						
	DH-PFA106	Mount Adapter						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFB305W	Wall mount bracket						
	DH-PFA151	Corner mount bracket						
	DH-PFA150	Pole Mount Bracket						
	DH-PFA152-E	Pole Mount Bracket						
Accessories (Optional)	DH-PFB205W-E	Wall Mount Bracket						
	DH-PFA13G	Junction box						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM321D-EN	DC12V 1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	DH-PFM800-4K	1 Channel Passive HDCVI Balun						
	PFM904	Integrated Mount Tester						

Accessories

Optional:



DH-PFA106 Mount Adapter



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall mount bracket



DH-PFA151 Corner mount bracket



DH-PFA150



DH-PFA150 Pole Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFB205W-E Wall Mount Bracket



DH-PFA13G Junction box



DH-PFM321-EN DC12V1A power adapter



DH-PFM321D-EN DC12V 1A power adapter



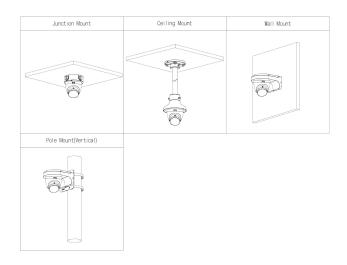
DH-PFM320D-EN DC12V2A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester



Dimensions (mm[inch])

