

DH-HAC-HDW1801T-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.

Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

Smart Area Lighting

Automatically adjusts the intensity of the brightness and exposure for the left and right areas in the video based on the proportion and position of the targets to reveal more details in the image.

- * The parameters and datasheets below can only be applied to 1801-IL-S3 series.
- * In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- Max. 15 fps@4K.
- · Smart Dual Light.
- · 40 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.













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.

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.

TVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; CVBS: PAL: 960H NTSC: 960H

4K (3840 × 2160); 960H (960 × 576/960 × 480)

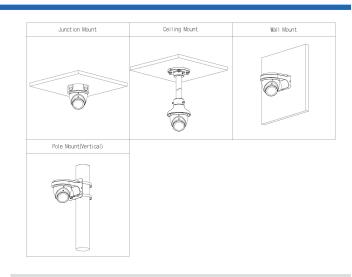
Resolution

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Technical Specification							Day/Night	Auto(ICR)/Color/B/W	
Camera							BLC	BLC; HLC; WDR	
Image Sensor		4K CMOS					WDR	DWDR	
Max. Resolution		3840 (H) × 2160 (V)					White Balance	Auto	
Scanning System		Progressive					Gain Control	Auto	
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s					Noise Reduction	3D NR	
Electronic shatter speed		NTSC: 1/30 s–1/100,000 s					Illumination Mode	Smart IR&WL(CVI,TVI); WL Mode; IR Mode	
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Mirror	Yes	
S/N Ratio		>65 dB					Certification	CF IV/D FN 62260 4	
Illumination Distance		IR: 40 m (131.23 ft); Warm Light: 40 m (131.23 ft)					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55	035;
Illuminator On/Off Control		Auto/Manual					Audio		
Illuminator N	lumber	4 (Multi-core	light)				Built-in Mic	Yes	
							Camera Audio	CVI	
Angle Adjustment		Tilt: 0°–78° Rotation: 0°–360°					Pick-up Distance	8 m (26.25 ft)	
Lens							Port		
Lens Type		Fixed-focal					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)	
Lens Mount		M12					Power		
Focal Length		2.8 mm; 3.6 mm					Power Supply	12 VDC (±30%)	
Max. Apertu	re	F2.0					Power Consumption	Max 7.2 W (12 VDC, IR on)	
Field of View		2.8 mm: H: 105.5°; V: 56.5°; D: 125.3° 3.6 mm: H: 86.8°; V: 44.6°; D: 104.5°					Environment		
Iris Control	Iris Control		Fixed				Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft) 3.6 mm: 2.1 m (6.89 ft)					Operating Humidity	<95% (RH), non-condensing	
	Lens			Identify		Storage Temperature	-40 °C to +60 °C (-40 °F to		
		88.0 m	35.2 m	17.6 m	8.8 m		Storage Humidity	<95% (RH), non-condensir	ng
	2.8 mm	(288.71 ft)	(115.49 ft)	(57.74 ft)	(28.87 ft)		Protection	IP67	
	3.6 mm	113.6 m	45.4 m	22.7 m	11.4 m		Anti-corrosion Level	Basic Protection	
DORI Distance	*DOPL/Datas	(372.70 ft) (148.95 ft) (74.48 ft) (37.40 ft)					Structure		
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation						Casing Material	Metal	
							Product Dimensions	Φ106.0 mm × 96.9 mm (Φ4.17" × 3.81")	
							Net Weight	0.48 kg (1.06 lb)	
\ r \ 1	and commiss	ioning manual/project design tool.					Gross Weight	0.62 kg (1.37 lb)	
Video				Installation	Wall mount; ceiling mount	t; vertical pole mount			
		CVI: PAL: 4K@15 fps;							
		NTSC: 4K@15 fps; AHD:					Ordering Information		
Video France Bata		PAL: 4K@15 fps; NTSC: 4K@15 fps;					Туре	Model	Description
Video Frame Rate		TVI:							AK Smart Dual Light

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HDW1801TN-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,NTSC						
TIDEVI CAIVILINA	DH-HAC-HDW1801TP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,PAL						

Lite Series | DH-HAC-HDW1801T-IL-A

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Туре	Model	Description
	DH-PFA106	Mount Adapter
	DH-PFB220C	Ceiling Mount Bracket
	DH-PFA151	Corner Mount Bracket
	DH-PFB305W	Wall Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFB2204W	Wall Mount Bracket
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
	DH-PFA139	Junction Box
	DH-PFM800-4K	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM904	Integrated Mount Tester



Dimensions (mm[inch])

mm [inch]

Accessories

Optional:



DH-PFA106 Mount Adapter



DH-PFA139 Junction Box



DH-PFA150 Pole Mount Bracket



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFB2204W Wall Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFB305W Wall Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



PFM904 Integrated Mount Tester

