

# DH-HAC-HDW1801TLM-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.

#### **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.

- \* 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.
- · 30 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.













#### 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.

#### 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.

Resolution

TVI:

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

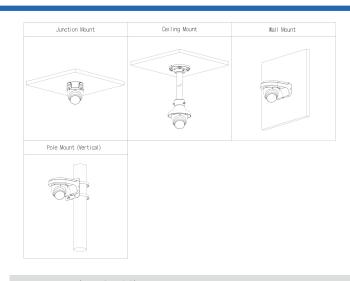
4K (3840 × 2160); 960H (960 × 576/960 × 480)

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Technical Specification						Day	//Night	Auto(ICR)/Color/B/W		
Camera						BLC		BLC; HLC; WDR		
Image Sensor		4K CMOS				WD	DR .	WDR		
Max. Resolution		3840 (H) × 2160 (V)				Whi	ite Balance	Auto		
Scanning System		Progressive				Gair	n Control	Auto		
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					se Reduction	3D NR		
		0.01 lux@F2.0 (Color, 30 IRE)					mination Mode	Smart IR&WL(CVI,TVI); WL Mode; IR Mode		
Min. Illumination		0.001 lux@F2 0 lux (Illumina	.0 (B/W, 30 IRE itor on)	·)		Mir	rtification	Yes		
S/N Ratio		>65 dB					CF-IVD: FN 62368-1:			
Illumination Distance		IR: 30 m (98.43 ft); Warm Light: 30 m (98.43 ft)				Cert	Certifications		032; EN 55035;	
Illuminator On/Off Control		Auto/Manual				Au	dio			
Illuminator Number		2 (Multi-core	light)			Buil	lt-in Mic	Yes		
		Pan: 0°–360°					mera Audio	CVI		
Angle Adjustm	Angle Adjustment		360°			Pick	k-up Distance	8 m (26.25 ft)		
Lens						Poi	Port			
Lens Type		Fixed-focal				Vide	eo Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)		
Lens Mount		M12				Pov	Power			
Focal Length		2.8 mm; 3.6 mm				Pow	ver Supply	12 VDC (±30%)		
Max. Aperture	2	F2.0				Pow	ver Consumption	Max 4.1 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°				Env	Environment			
Iris Control		Fixed				Оре	erating 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)					erating Humidity	<95% (RH), non-condensing		
Lens		Detect	Observe	Recognize	Identify		rage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
	Lens	88.0 m	35.2 m	17.6 m	8.8 m		rage Humidity	<95% (RH), non-condensin	g	
	2.8 mm	( 288.71 ft)	( 115.49 ft)	( 57.74 ft)	( 28.87 ft)	Prot	tection	IP67		
	3.6 mm	113.6 m	45.4 m	22.7 m	11.4 m	Anti	i-corrosion Level	Basic Protection		
DORI Distance	*0001/0	(372.70 ft) (148.95 ft) (74.48 ft) (37.40 ft)			Str	ructure				
	*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					Casi	ing Material	Metal		
						Prod	duct Dimensions	Φ94.0 mm × 85.7 mm (Φ3.70" × 3.37")		
						Net	Weight	0.31 kg (0.68 lb)		
	and commissi	ioning manual/project design tool.				Gro	oss Weight	0.41 kg (0.9 lb)		
Video				Inst	Installation Wall mount; ceiling mount; vertical pole mount					
		CVI: PAL: 4K@15 fps; NTSC: 4K@15 fps; AHD: PAL: 4K@15 fps;			Orc	Ordering Information				
Video Frame Rate		NTSC: 4K@15 fps;				Тур	e	Model	Description	

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HDW1801TLMN- IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,NTSC						
TIDEVI CAIVIENA	DH-HAC-HDW1801TLMP-IL-A	4K Smart Dual Light HDCVI Fixed-focal Eyeball Camera,PAL						

# Lite Series | DH-HAC-HDW1801TLM-IL-A

Туре	Model	Description
	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-PFB2204W	Wall Mount Bracket
	DH-PFA13A-E	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-PFA13A-E Junction Box



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

