

# DH-HAC-HDW1500T-IL-A

## 5MP 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 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.

#### **Built-in Mic**

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 to1500-IL-S3 series.
- \* In order to use the 5MP 16:9 and the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- Max. 25 fps@5MP (16:9 video output)
- · Starlight, 3D NR
- · Smart Dual Light.
- · 40 m illumination distance.
- · Built-in Mic.
- · 3.6 mm fixed lens (2.8 mm optional).
- · CVI/CVBS/AHD/TVI switchable.
- · IP67, 12 VDC.















#### **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.

#### 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.

Technical Specification								CVBS:
Camera								PAL: 960H NTSC: 960H
Image Sensor		5 MP CMOS					Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480); TVI 5M 16:9 (2960 × 1665)
Max. Resolution		2880 (H) × 1620 (V)						
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s NTSC: 1/30 s-1/100,000 s					BLC	BLC; HLC; WDR
		0.05 lux@F1.6 (Color, 30 IRE)					WDR	DWDR
Min. Illumination		0.005 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)					White Balance	Auto;Area white balance
S/N Ratio		>65 dB					Gain Control	Auto
		IR: 40 m (131.23 ft)					Noise Reduction	3D NR
Illumination Distance		Warm Light: 40 m (131.23 ft)					Motion Detection	Yes
Illuminator On/Off Control		Auto					Illumination Mode	Smart IR&WL WL Mode; IR Mode
Illuminator Number		4 (Multi-core light)					Mirror	Yes
Angle Adjustment		Pan: 0°–360° Tilt: 2°–74.8°					Privacy Masking	Off/On (8 areas, rectangle)
		Rotation: 0°–360°					Certification	
Lens							Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Lens Type		Fixed-focal					Audio	
Auto Focus		No					Built-in Mic	Yes
Lens Mount		M12					Camera Audio	CVI; TVI
Focal Length		3.6 mm; 2.8 mm					Port	
Max. Aperture		F1.6					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port (DIP Switch)
Field of View		2.8 mm: H: 113.3°; V: 62.1°; D: 134.3° 3.6 mm: H: 90.1°; V: 47.8°; D: 109.3°					Power	port(s): Silicon,
Iris Control		Fixed					Power Supply	12 VDC (±30%)
Close Focus Distance		2.8 mm: 0.8 m (2.62 ft)					Power Consumption	Max 6.5 W (12 VDC, WLED on)
		3.6 mm: 1.3 r					Environment	
	Lens	Detect		Recognize	Identify		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.8 mm	59.8 m ( 196.19 ft)	23.9 m ( 78.41 ft)	12.0 m ( 39.37 ft)	6.0 m ( 19.69 ft)		Operating Humidity	<95% (RH), non-condensing
	3.6 mm	77 m	30.8 m	15.4 m	7.7 m		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI Distance	*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 and commissioning manual/project design tool.						Storage Humidity	<95% (RH), non-condensing
							Protection	IP67
							Anti-corrosion Level	Basic Protection
							Structure	
Video							Casing Material	Metal
11400		CVI:					Product Dimensions	Ф106.0 mm × 96.9 mm (Ф4.17" × 3.81")
Video Frame Rate		PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 5M@20 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI:					Net Weight	0.50 kg (1.10 lb)
							Gross Weight	0.64 kg (1.41 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount

PAL: 5M 16:9@20 fps NTSC: 5M 16:9@20 fps

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HDW1500TN-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera,NTSC						
HDCVI CAIVIERA	DH-HAC-HDW1500TP-IL-A	5MP Smart Dual Light HDCVI Fixed-focal Eyeball Camera,PAL						
	DH-PFB220C	Ceiling Mount Bracket						
	DH-PFA106	Mount Adapter						
	DH-PFB305W	Wall Mount Bracket						
	DH-PFA151	Corner Mount Bracket						
	DH-PFA150	Pole Mount Bracket						
	DH-PFB204W	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						

### Accessories Optional:



DH-PFA106 Mount Adapter



DH-PFA151



Corner Mount Bracket



DH-PFB220C Ceiling Mount Bracket



DH-PFA139

Junction Box

DH-PFA152-E

Pole Mount Bracket

DH-PFB305W Wall Mount Bracket





DH-PFB204W

Wall Mount Bracket

DH-PFA150 Pole Mount Bracket

DH-PFM320D-EN DC12V2A power adapter







DH-PFM321-EN

DH-PFM800-4K DC12V1A power adapter 1 Channel Passive HDCVI

PFM904 Integrated Mount Tester

Balun © 2025 Dahua. All rights reserved. Design and specificatons are subject to change without notce Pictures in the document are for reference only, and the actual product shall prevail. Rev 002.000

Pole Mount(Vertical)

Ceiling Mount

### Dimensions (mm[inch])

Junction Mount

mm [inch]

Wall Mount



