

# DH-HAC-HDW1509T-LED

5MP Full-color 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**

#### **Full-color**

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 color monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

#### **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.

#### **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 1509-S3 series.
- \* In order to use the 5MP 16:9 HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000001.0.R.200908 or later version
- Max 25 fps@5MP (16:9 video output)
- · Super Adapt, 120 dB true WDR, 3D NR
- · 24/7 color imaging
- · Smart Light+
- · Smart Area Lighting
- · 40 m illumination distance
- CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- 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.

CVBS: PAL: 960H

Technical	Specification	n						NTSC: 960H
Camera							5M (2880 × 1620); TVI 5M 16:9 (2960 ×	
Image Sensor	r	5 MP CMOS					Resolution	(2560 × 1440); 1080p (1920 × 1080); 96 576/960 × 480)
Max. Resolut	ion	2880 (H) × 16	20 (V)				Day/Night	Color
Scanning Syst	tem	Progressive					BLC	BLC; HLC; WDR; HLC-Pro
Electronic Sh	utter Speed	PAL: 1/3 s-1/100,000 s;					WDR	120 dB
LIECTIONIC 311	utter speed	NTSC: 1/4 s-1/100,000 s					White Balance	Auto;Area white balance
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0 lux (Illuminator on)					Gain Control	Auto/Manual
S/N Ratio		>65 dB					Noise Reduction	3D NR
Illumination Distance		40 m (131 ft)					Illumination Mode	Smart Light
Illuminator On/Off Control		Auto/Manual					Defog	Electronic defog
Illuminator Number		4 (Warm light)					Digital Zoom	4×
		Pan: 0°–360°					Mirror	Yes
Angle Adjustr	ngle Adjustment		Tilt: 2° ~ 75° Rotation: 0°–360°				Privacy Masking	Off/On (8 areas, rectangle)
Lens		Actation: 0 –3					Certification	
Lens Type		Fixed-focal					Certifications	CE-LVD: EN 62368-1;
		No					Certifications	CE-EMC: EN 55032; EN 55035;
Auto Focus							Port	
Lens Mount		M12					Video Output	Video output choices of CVI/TVI/AHD/CV port
Focal Length  May Aparture		2.8 mm; 3.6 mm					Alarm Output	1 channel
Max. Aperture		F1.0					Power	
Field of View		2.8 mm: H: 112°; V: 57°; D: 132° 3.6 mm: H: 88°; V: 46°; D: 104°						12 VDC ± 30% (It is recommended to us
Iris Control		Fixed					Power Supply	adapter to supply the power for one can
Close Focus Distance		2.8 mm: 2 m (6.56 ft)					Power Consumption	Max 9 W (12 VDC, LED on)
		3.6 mm: 2.3 n					Environment	
	Lens	Detect	Observe	Recognize	Identify		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	2.8 mm	67.4 m ( 221.13 ft)	27.0 m ( 88.58 ft)	13.5 m ( 44.29 ft)	6.7 m ( 21.98 ft)		Operating Humidity	<95% (RH), non-condensing
	3.6 mm	80.0 m	32.0 m	16.0 m	8.0 m		Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
DORI Distance		(262.47 ft) (104.99 ft) (52.49 ft) (26.25 ft)				Storage Humidity	<95% (RH), non-condensing	
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						Protection	IP67
							Anti-corrosion Level	Basic Protection
							Structure	
	and commissi	oning manual,	/project design	n tool.			Casing Material	Metal
Video							Product Dimensions	Φ106 mm × 96.9 mm (Φ4.17" × 3.81")
		CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps;					Net Weight	0.49 kg (1.08 lb)
			1080p@25 fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps;				Gross Weight	0.68 kg (1.50 lb)
Video Frame Rate		1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI:					Installation	Wall mount; ceiling mount; vertical pole
		PAL: 5M 16:9@20 fps; 4M@25 fps NTSC: 5M 16:9@20 fps; 4M@30 fps						

## Lite Series | DH-HAC-HDW1509T-LED

Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HDW1509TP-LED	5MP Full-color HDCVI Fixed- focal Eyeball Camera, PAL						
HDCVI CAMERA	DH-HAC-HDW1509TN-LED	5MP Full-color HDCVI Fixed- focal Eyeball Camera, NTSC						
	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-PFA152-E	Pole Mount Bracket						
Accessories (Optional)	DH-PFB204W	Wall mount bracket						
	DH-PFA139	Junction box						
	DH-PFM800-4K	1 Channel Passive HDCVI Balun						
	DH-PFM321-EN	DC12V1A power adapter						
	DH-PFM321D-EN	DC12V 1A power adapter						
	DH-PFM320D-EN	DC12V2A power adapter						
	PFM904	Integrated Mount Tester						



### Optional:



DH-PFB220C Ceiling Mount Bracket



DH-PFA151 Corner mount bracket



DH-PFB204W Wall mount bracket



DH-PFM321-EN DC12V1A power adapter DC12V 1A power adapter



DH-PFA106 Mount Adapter



DH-PFA150 Pole Mount Bracket



DH-PFA139 Junction box



DH-PFM321D-EN



DH-PFB305W Wall mount bracket



DH-PFA152-E Pole Mount Bracket



DH-PFM800-4K 1 Channel Passive HDCVI Balun



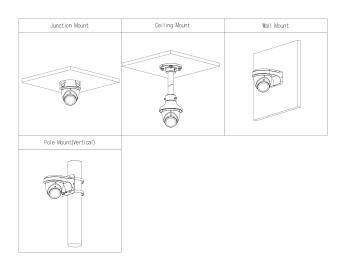
DH-PFM320D-EN DC12V2A power adapter



PFM904

Integrated Mount Tester

Rev 002.000 ©2024 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.



#### Dimensions (mm[inch])

mm [inch]

