

# DH-HAC-HFW1509TLM-IL-A

5MP Smart Dual Light Bullet Camera



## **System 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.

## Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

- \* The parameters and datasheets below can only be applied to 1509-IL 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).
- 120 dB true WDR, 3D NR.
- · 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.















#### **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.

## **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 S	pecification							5M (2880 × 1620);
Camera							Resolution	4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Pixel		5MP					Day/Night	Auto (ICR)/Color/B/W
Image Sensor		5MP CMOS					BLC	
Max. Resolution		2880 (H) × 1620 (V)						BLC; HLC; WDR; HLC-Pro
Scanning System		Progressive					WDR White Balance	120 dB
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					Gain Control	Auto; Area white balance  Auto; manual
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Noise Reduction	3D NR
S/N Ratio		>65 dB					Defog	Electronic defog
Illumination Distance		IR: 40 m (131.23 ft)					Digital Zoom	4x
Illuminator On/Off Control		Warm light: 40 m (131.23 ft) Auto; manual					Mirror	Yes
Illuminator Number		2 (IR light)					Privacy Masking	Off/On (8 areas, rectangle)
		2 (Warm light)					Illumination Mode	Smart IR&WL WL Mode; IR Mode
		Pan: 0°–360°					Certifications	
Pan/Tilt/Rotation Range Lens		Tilt: 0°–90° Rotation: 0°–360°					Certifications	CE (EN55032: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013, EN55024: 2010+A1: 2015, EN55035: 2017, EN50130-4: 2011+A1: 2014, EN62368-1:
Lens Type		Fixed-focal						2014+A11: 2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014) UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)
Mount Type		M12					Port	02 (0202000 1.0.11) 05.1 02212 110.022000 1 11)
Focal Length		2.8 mm; 3.6 mm					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one
Max. Aperture		F1.0					Audio Input	BNC port  One channel built-in MIC
Field of View		2.8 mm: H: 111°; V: 57°; D: 131° 3.6 mm: H: 89°; V: 47°; D: 104°					Power	
Iris Control		Fixed					Power Supply	12 VDC ± 30%
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)					Power Consumption	Max 5.7 W (12 VDC, LED on)
	Lens	Detect	Observe	Recognize	Identify		Environment	
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
	2.6 ****	78.0 m	31.2 m	15.6 m	7.8 m		Operating Humidity	<95% (RH), non-condensing
DORI distance	3.6 mm	(255.91 ft)	5.91 ft) (102.36 ft)	(51.18 ft)	(25.59 ft)		Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to						Protection	IP67
	this table do no	distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent					Structure	
	function distances, refer to installation and commissioning manual/project design tool.						Casing Material	Metal front cover + plastic rear barrel + metal bracket
Video		CVII	//-				Product Dimensions	198.4 mm × 80.2 mm × 76.2 mm (7.81" × 3.15" × 3.00")
Video Frame Rate		CVI: PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps; AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps; TVI:					Packaging Dimensions	240 mm × 115 mm × 111 mm (9.45" × 4.53" × 4.37")
							Net Weight	0.34 kg (0.75 lb)
							Gross Weight	0.51 kg (1.12 lb)
		PAL: 4M@25 fps; NTSC: 4M@30 fps; CVBS:					Installation	Wall mount; ceiling mount; vertical pole mount

CVBS: PAL: 960H; NTSC: 960H

Ordering Information								
Туре	Part Number	Description						
5MP Camera	DH-HAC-HFW1509TLMP-IL-A	5MP Smart Dual Light Bullet Camera, PAL						
SIVIP Calliela	DH-HAC-HFW1509TLMN-IL-A	5MP Smart Dual Light Bullet Camera, NTSC						
	PFA134	Junction box						
	PFA130-E	Water-proof Junction Box						
Accessories (Optional)	PFA152-E	Pole Mount Bracket (For use with PFA130-E Water-proof Junction Box)						
(=  /	PFM800-E	Passive HDCVI Balun						
	PFM321D	12V 1A Power Adapter						
	PFM904	Integrated Mount Tester						

## Accessories

## Optional:



PFA134 Junction



PFA130-E Water-proof Junction Box



PFA152-E Pole Mount Bracket (For use with PFA130-E Waterproof Junction Box)



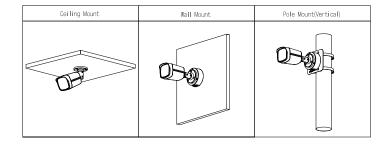
PFM800-E Passive HDCVI Balun



PFM321D 12V 1A Power Adapter



PFM904 Integrated Mount Tester



## Dimensions (mm[inch])

