

# DH-HAC-HFW1509TLM-A-LED

5MP Full-color HDCVI Fixed-focal Bullet 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 V4.001.000001.0.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
- · Built-in Mic
- · 40 m illumination distance
- · CVI/CVBS/AHD/TVI switchable
- · 3.6 mm fixed lens (2.8 mm optional)
- 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.

CVBS: PAL: 960H

Technical Specification								NTSC: 960H
Camera							Resolution	5M (2880 × 1620); TVI 5M 16:9 (2960 × 1665); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Image Sensor		5 MP CMOS				Kesolu	nesolutioff	
Max. Resolution		2880 (H) × 1620 (V)					Day/Night	Color
Scanning System		Progressive					BLC	BLC; HLC; WDR; HLC-Pro
Electronic Shutter Speed		PAL: 1/3 s-1/100,000 s;					WDR	120 dB
		NTSC: 1/4 s-1/100,000 s 0.001 lux@F1.0 (Color, 30 IRE)					White Balance	Auto;Area white balance
Min. Illumination		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×
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Mirror	Yes
							Privacy Masking	Off/On (8 areas, rectangle)
Lens							Certification	
Lens Type		Fixed-focal					Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;
Auto Focus		No					Audio	
Lens Mount		M12					Built-in Mic	Yes
Focal Length		3.6 mm; 2.8 mm					Port	
Max. Aperture		F1.0  2.8 mm: H: 112°; V: 57°; D: 132°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port
Field of View		3.6 mm: H: 88°; V: 46°; D: 104°					Alarm Output	1 channel
Iris Control		Fixed					Power	
Close Focus Distance		2.8 mm: 2 m (6.56 ft) 3.6 mm: 2.3 m (7.55 ft)					Power Supply	12 VDC ± 30% (It is recommended to use a power adapter to supply the power for one camera)
	Lens	Detect	Observe	Recognize	Identify		Power Consumption	Max 9 W (12 VDC, LED on)
DORI Distance	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)		Environment	
	2.6 mm	80.0 m	32.0 m	16.0 m	8.0 m		Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
	3.6 mm	( 262.47 ft)	( 104.99 ft)	( 52.49 ft)	( 26.25 ft)		Operating Humidity	<95% (RH), non-condensing
	*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						Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
							Storage Humidity	<95% (RH), non-condensing
							Protection	IP67
and commiss		ioning manual/project design tool.					Anti-corrosion Level	Basic Protection
Video							Structure	
Video Frame Rate		CVI: PAL: 5M@25 fps; 5M@12.5 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 5M@10 fps; 4M@30 fps; 1080p@30 fps AHD: PAL: 4M@25 fps NTSC: 4M@30 fps TVI: PAL: 5M 16:9@20 fps; 4M@25 fps NTSC: 5M 16:9@20 fps; 4M@30 fps					Casing Material	Metal front cover + plastic rear barrel + metal bracket
							Product Dimensions	198.4 mm × 80.2 mm × 76.2 mm (7.81" × 3.16" × 3.00")
							Net Weight	0.31 kg (0.68 lb)
							Gross Weight	0.48 kg (1.06 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount

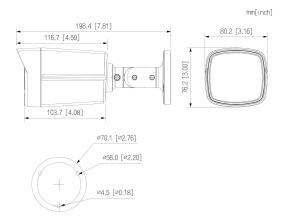
Ordering Information								
Туре	Model	Description						
HDCVI CAMERA	DH-HAC-HFW1509TLMN-A- LED	5MP Full-color HDCVI Fixed-focal Bullet Camera,NTSC						
NDCVI CAIVIENA	DH-HAC-HFW1509TLMP-A- LED	5MP Full-color HDCVI Fixed-focal Bullet Camera,PAL						
	DH-PFA130-E	Water-proof Junction Box						
	DH-PFA151	Corner Mount Bracket						
	G3416GW	G3/4" Water Joint						
	DH-PFA152-E	Pole Mount Bracket						
	DH-PFA134	Junction Box						
Accessories (Optional)	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						

Wall Mount

Pole Mount(Vertical)

# Dimensions (mm[inch])

Ceiling Mount



# Accessories

# Optional:



DH-PFA130-E Water-proof Junction Box



DH-PFA134 Junction Box



DH-PFA151 Corner Mount Bracket



DH-PFA152-E Pole Mount Bracket



DH-PFM320D-EN DC12V2A power adapter



DH-PFM321-EN DC12V1A power adapter



DH-PFM321D-EN DC12V 1A power adapter



DH-PFM800-4K 1 Channel Passive HDCVI Balun



G3416GW G3/4" Water Joint



PFM904 Integrated Mount Tester