

# DH-HAC-HFW1509TLM-IL-A

5MP Smart Dual Illuminators 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 Illuminators**

With its smart dual illumination mechanism, the camera automatically turns on the white light when Perimeter Protection/SMD Plus function of AI XVR detects a target in therule 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 illuminator 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 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).
- 120 dB true WDR, 3D NR.
- · Smart Dual Illuminators.
- 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						WDR	120 dB
Camera							White Balance	Auto; Area white balance
Pixel		5MP					Gain Control	Auto; manual
Image Sensor		5MP CMOS					Noise Reduction	3D NR
Max. Resolution		2880 (H) × 1620 (V)					Defog	Electronic defog
Scanning System		Progressive					Digital Zoom	4x
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					Mirror	Yes
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE)					Privacy Masking	Off/On (8 areas, rectangle)
C/N D .:		0 lux (Illuminator on)					Illumination Mode	Smart IR&WL WL Mode; IR Mode
S/N Ratio		>65 dB IR: 40 m (131.23 ft)					Certifications	
Illumination Dis		R: 40 m (131.23 π) Warm light: 40 m (131.23 ft)						CE (EN55032: 2015, EN61000-3-2: 2014, EN61000-3-3: 2013, EN55024: 2010+A1: 2015, EN55035:
Illuminator On/Off Control Illuminator Number		Auto; manual 2 (IR light)					Certifications	2017, EN50130-4: 2011+A1: 2014, EN62368-1: 2014+A11: 2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI C63.4-2014)
		2 (Warm light)					Dort	UL (UL62368-1+CAN/CSA C22.2 No.62368-1-14)
0 (71) (0		Pan: 0°–360°					Port	Video output choices of CVI/TVI/AHD/CVBS by one
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Video Output	BNC port
Lens							Audio Input	One channel built-in MIC
Lens Type		Fixed-focal					Power	
Mount Type		M12					Power Supply	12 VDC ± 30%
Focal Length		2.8 mm; 3.6 mm					Power Consumption	Max 5.7 W (12 VDC, LED on)
Max. Aperture		F1.0	F1.0				Environment	
Field of View		2.8 mm: H: 111°; V: 57°; D: 131° 3.6 mm: H: 89°; V: 47°; D: 104°					Operating Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
Iris Control		Fixed					Operating Humidity	<95% (RH), non-condensing
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
		3.6 mm: 2.2 m (7.22 ft)  Detect Observe Recognize Identify					Protection	IP67
	Lens	66.0 m	26.4 m	13.2 m	6.6 m		Structure	
DORI distance	2.8 mm	(216.54 ft) 78.0 m	(86.61 ft) 31.2 m	(43.31 ft) 15.6 m	(21.65 ft)		Casing Material	Metal front cover + plastic rear barrel + metal bracket
Video	3.6 mm	(255.91 ft)	(102.36 ft)	(51.18 ft)	(25.59 ft)		Product Dimensions	198.4 mm $\times$ 80.2 mm $\times$ 76.2 mm (7.81" $\times$ 3.15" $\times$ 3.00")
Viaco		CVI:					Packaging Dimensions	240 mm × 115 mm × 111 mm (9.45" × 4.53" × 4.37"
			PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps;				Net Weight	0.34 kg (0.75 lb)
Video Frame Rate		AHD: PAL: 4M@25 fps; NTSC: 4M@30 fps; TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps; CVBS: PAL: 960H; NTSC: 960H					Gross Weight	0.51 kg (1.12 lb)
							Installation	Wall mount; ceiling mount; vertical pole mount
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)						
Day/Night		Auto (ICR)/Color/B/W						
BLC		BLC; HLC; WDR; HLC-Pro						

Ordering Information					
Туре	Part Number	Description			
5MP Camera	DH-HAC-HFW1509TLMP-IL-A	5MP Smart Dual Illuminators Bullet Camera, PAL			
SIMP Calliela	DH-HAC-HFW1509TLMN-IL-A	5MP Smart Dual Illuminators 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 Box



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

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	0	

# Dimensions (mm[inch])

