

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						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	4×	
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)	
S/N Ratio		0 lux (Illuminator on)					Illumination Mode	Smart IR&WL WL Mode; IR Mode	
·	ctanco	IR: 40 m (131.23 ft)					Certifications		
Illumination Distance Illuminator On/Off Control		Warm light: 40 m (131.23 ft) Auto; manual					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: 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)	
Illuminator Number		2 (IR light)							
		2 (Warm light)					Port		
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Video Output	Video output choices of CVI/TVI/AHD/CVBS by one 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	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)	
Lens		3.6 mm: 2.2 m (7.22 ft) Detect Observe Recognize Identify					Protection	IP67	
		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) 7.8 m		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 × 80.2 mm × 76.2 mm (7.81" × 3.15" × 3.00")	
video		CVI:	CVI:				Packaging Dimensions	240 mm × 115 mm × 111 mm (9.45" × 4.53" × 4.37"	
Video Frame Rate			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)	
		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 Light Bullet Camera, PAL					
SIMP 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

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
	0	OBOT

Dimensions (mm[inch])

