

DH-HAC-HFW1509TM-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 V4.001.000004.1.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.

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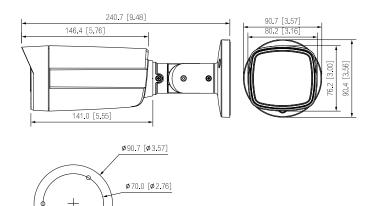
Day/Night

Auto (ICR)/Color/B/W

Technical S	pecification	ı					BLC	BLC; HLC; WDR; HLC-Pro
Camera						WDR	120dB	
Pixel		5MP	5MP				White Balance	Auto; Area white balance
Image Sensor		5MP CMOS					Gain Control	Auto; manual
Max. Resolution		2880 (H) × 1	2880 (H) × 1620 (V)				Noise Reduction	3D NR
Scanning System		Progressive					Defog	Electronic defog
Electronic Shutter Speed		PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s					Digital Zoom	4×
Min. Illumination		0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE)					Mirror Privacy Masking	Yes Off/On (8 areas, rectangle)
S/N Ratio		0 lux (Illuminator on) >65dB					Illumination Mode	Smart IR&WL WL Mode; IR Mode
		IR: 40 m (131.23 ft)					Certifications	Silial Cinewil, WE Mode, in Mode
Illumination Distance			Warm light: 40 m (131.23 ft)				Certifications	CE (EN55032:2015, EN61000-3-2:2014,
Illuminator On/Off Control			Auto; manual				Certifications	3-3:2013, EN55024:2010+A1:2015, EN5 EN50130-4:2011+A1:2014, EN62368-
Illuminator Number		2 (IR light)	2 (IR light)					1:2014+A11:2017) FCC (CFR 47 FCC Part 15 subpartB, ANSI
			2 (Warm light)					UL (UL62368-1+CAN/CSA C22.2 No.6236
Pan/Tilt/Rotation Range		Tilt: 0°-90°					Port	
Lens		Rotation: 0°-	Rotation: 0°–360°				Video Output	Video output choices of CVI/TVI/AHD/CVBNC port
Lens Type		Fixed-focal	Fixed-focal				Audio Input	One channel built-in MIC
Mount Type		M12					Power	
Focal Length		2.8 mm; 3.6	2.8 mm; 3.6 mm				Power Supply	12V ± 30% DC
Max. Aperture		F1.0					Power Consumption	Max 5.7 W (12 VDC, LED on)
		2.8 mm: H: 1	2.8 mm: H: 111°; V: 57°; D: 131°				Environment	
Field of View			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) 3.6 mm: 2.2 m (7.22 ft)					Storage Temperature	-40 °C to +60 °C (-40 °F to 140 °F)
	Lens	Detect	Observe	Recognize	Identify		Protection	IP67
DORI distance	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)		Structure	
	3.6 mm	78.0 m	31.2 m	15.6 m	7.8 m		Casing Material	Metal
Video		(255.9111)	(255.91 ft) (102.36 ft) (51.18 ft) (25.59 ft)				Product Dimensions	240.7 mm × 90.7 mm × 90.7 mm (9.48" 3.57")
			PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps; AHD:				Packaging Dimensions	299 mm × 119mm × 111 mm (11.77" × 4.37")
		AHD:					Net Weight	0.7 kg (1.54 lb)
Video Frame Rate		NTSC: 4M@	PAL: 4M@25 fps; NTSC: 4M@30 fps; TVI: PAL: 4M@25 fps; NTSC: 4M@30 fps; CVBS: PAL: 960H; NTSC: 960H				Gross Weight	0.89 kg (1.96 lb)
		PAL: 4M@25					Installation	Wall mount; ceiling mount; vertical pole
		CVBS: PAL: 960H;						
Resolution		5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)						

Ordering Information							
Туре	Part Number	Description					
5MP Camera	DH-HAC-HFW1509TMP-IL-A	5MP Smart Dual Light Bullet Camera, PAL					
SIVIP CAITIELA	DH-HAC-HFW1509TMN-IL-A	5MP Smart Dual Light Bullet Camera, NTSC					
	PFA135	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					

Dimensions (mm[inch])



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Accessories

Optional:



PFA135 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)