

DH-HAC-HFW1509TM-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.

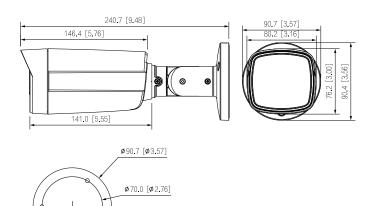
Day/Night

Auto (ICR)/Color/B/W

w						
Technical Specification						
Camera						
Pixel		5MP	5MP			
Image Sensor		5MP CMOS	5MP CMOS			
Max. Resolution		2880 (H) × 1	2880 (H) × 1620 (V)			
Scanning System		Progressive	Progressive			
Electronic Shutter Speed			PAL: 1/3 s-1/100000 s NTSC: 1/4 s-1/100000 s			
Min. Illumination		0.0001 lux@	0.001 lux@F1.0 (Color, 30 IRE) 0.0001 lux@F1.0 (B/W, 30 IRE)			
S/N Patio		·	0 lux (Illuminator on) >65dB			
S/N Ratio						
Illumination Distance			IR: 40 m (131.23 ft) Warm light: 40 m (131.23 ft)			
Illuminator On/Off Control			Auto; manual			
Illuminator Number		2 (IR light) 2 (Warm ligh	2 (Warm light)			
Pan/Tilt/Rotation Range		Pan: 0°-360' Tilt: 0°-90°	Pan: 0°–360° Tilt: 0°–90°			
Lens			Rotation: 0°–360°			
		Fixed-focal	Fixed-focal			
Lens Type			M12			
Mount Type						
Focal Length			2.8 mm; 3.6 mm			
Max. Aperture			F1.0			
Field of View			2.8 mm: H: 111°; V: 57°; D: 131° 3.6 mm: H: 89°; V: 47°; D: 104°			
Iris Control		Fixed	Fixed			
Close Focus Distance			2.8 mm: 1.5 m (4.92 ft) 3.6 mm: 2.2 m (7.22 ft)			
	Lens	Detect	Observe	Recognize	Identify	
		66.0 m	26.4 m	13.2 m	6.6 m	
DORI distance	2.8 mm	(216.54 ft)	(86.61 ft)	(43.31 ft)	(21.65 ft)	
	3.6 mm	78.0 m (255.91 ft)	31.2 m (102.36 ft)	15.6 m (51.18 ft)	7.8 m (25.59 ft)	
Video						
Video Frame Rate			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: PAL: 4M@25 fps; NTSC: 4M@30 fps;			
		AHD:				
		NTSC: 4M@				
		PAL: 4M@25 NTSC: 4M@3				
		CVBS: PAL: 960H; NTSC: 960H				
Resolution		4M (2560 × 1080p (1920	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 Illuminators Bullet Camera, PAL						
SIVIP CAITIELA	DH-HAC-HFW1509TMN-IL-A	5MP Smart Dual Illuminators 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])



3-**ø**4.7 [**ø**0.19]

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)