

# DH-HAC-HFW1209CM-IL-A

2MP Smart Dual Light 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 fullcolor 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.

### **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 1209-IL-S3 series.
- \* In order to use the Smart Dual Light HDCVI camera, the firmware of XVR must be upgraded to V4.001.0000004.1.R.220323 or later version.
- Max. 30 fps@1080p.
- 3D NR.
- Smart Dual Light.
- 20 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.

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## **Technical Specification**

### Camera

Camera					
Image Sensor		2 MP CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
Scanning System		Progressive			
Electronic Shutter Speed		PAL: 1/25 s-1/100,000 s; NTSC: 1/30 s-1/100,000 s			
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		20 m (65.62 ft)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		1 (Multi-core light)			
Angle Adjustment		Pan: 0°—360° Tilt: 0°—90° Rotation: 0°—360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		3.6 mm; 2.8 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: H: 108°; V: 58°; D: 127° 3.6 mm: H: 86°; V: 47°; D: 100°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.0 m (3.28 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	42.2 m ( 138.45 ft)	16.9 m ( 55.45 ft)	8.4 m ( 27.56 ft)	4.2 m ( 13.78 ft)
	3.6 mm	53.7 m ( 176.18 ft)	21.5 m ( 70.54 ft)	10.7 m ( 35.10 ft)	5.4 m ( 17.72 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video				

(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 and commissioning manual/project design tool.

### Video

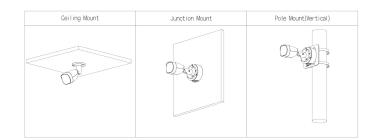
NTSC: 1080p@30 fps CVBS: PAL: 960H NTSC: 960H	Video Frame Rate	CVBS: PAL: 960H	
Resolution 1080p (1920 x 1080); 960H (960 x 576/960 x 480)	Resolution	1080p (1920 × 1080); 960H (960 × 576/960 × 480)	
Day/Night Auto(ICR)/Color/B/W	Day/Night	Auto(ICR)/Color/B/W	

BLC	BLC; HLC; WDR		
WDR	DWDR		
White Balance	Auto;Area white balance		
Gain Control	Manual;Auto		
Noise Reduction	3D NR		
Illumination Mode	Smart IR&WL WL Mode; IR Mode		
Mirror	Yes		
Privacy Masking	Off/On (8 areas, rectangle)		
Certification			
Certifications	CE-LVD: EN 62368-1; CE-EMC: EN 55032; EN 55035;		
Port			
Video Output	Video output choices of CVI/TVI/AHD/CVBS by one BNC port		
Audio Input	One channel built-in Mic		
Power			
Power Supply	12 VDC ± 30%		
Power Consumption	Max 2.4 W (12 VDC, LED on)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	<95% (RH), non-condensing		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	<95% (RH), non-condensing		
Protection	IP67		
Anti-corrosion Level	Basic Protection		
Structure			
Casing Material	Metal		
Product Dimensions	166.6 mm × 69.7 mm × 70.0 mm (6.56" × 2.74" × 2.76")		
Net Weight	0.32 kg (0.71 lb)		
Gross Weight	0.42 kg (0.93 lb)		
Installation	Wall mount; ceiling mount; vertical pole mount		

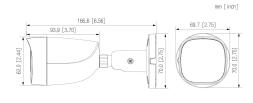
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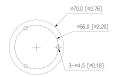
## **Ordering Information**

Туре	Model	Description
HDCVI CAMERA	DH-HAC-HFW1209CMP-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, PAL
HDCVI CAIVIEKA	DH-HAC-HFW1209CMN-IL-A	2MP Smart Dual Light HDCVI Fixed-focal Bullet Camera, NTSC
	DH-PFA151	Corner mount bracket
	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA134	Junction box
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	DH-PFM800-E	1 Channel Passive HDCVI Balun
	PFM904	Integrated Mount Tester



### Dimensions (mm[inch])





### Accessories

#### Optional:



DH-PFA151 Corner mount bracket



Water-proof Junction Box

DH-PFM800-E

DH-PFA130-E

DH-PFA134 Junction box



DH-PFM321D-EN DC12V 1A power adapter

DH-PFM320D-EN DC12V2A power adapter



DH-PFA152-E

Pole Mount Bracket

DH-PFM321-EN 1 Channel Passive HDCVI Balun DC12V1A power adapter



PFM904 Integrated Mount Tester

