

# DH-HAC-HFW1209CM-A-LED

2MP Full-color 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 full-color and starlight, providing various solutions for different scenarios.

## Functions

### Full-color

With its advanced image processing algorithm and capability to absorb large quantities of light, the camera provides 24/7 color monitoring that collects clear and highly detailed information, significantly increasing the reliability of the human and vehicle images that are collected as evidence for intelligent analysis.

### Smart Light+

Equipped with advanced LEDs and beam processing technology, the camera effectively reduces interference of stray light, ensuring concentrated illumination within the lens's field of view. This allows the camera to easily produce clear images that reveal the fine details of targets even in low light conditions.

### 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.

\* The parameters and datasheets below can only be applied to 1209-S3 series.

- 24/7 color imaging, Max. 30 fps@1080p.
- Smart Light+.
- 30 m illumination distance.
- Super Adapt, 3D NR.
- 3.6 mm fixed lens (2.8 mm optional).
- CVI/CVBS/AHD/TVI switchable.
- IP67, DC 12 V.



### Super Adapt

With its intelligent algorithm, the camera automatically adjusts its parameters to provide optimal performance and vivid images.

### 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.

Technical Specification					
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 lux (Illuminator on)			
S/N Ratio		>65 dB			
Illumination Distance		30 m (98.43 ft)			
Illuminator On/Off Control		Auto;Manual			
Illuminator Number		2 (Warm light)			
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: H: 107.8°; V: 58.9°; D: 126.8° 3.6 mm: H: 85.9°; V: 46.7°; D: 100.4°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 1.1 m (3.61 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 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					
Video Frame Rate		CVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; AHD: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; TVI: PAL: 1080p@25 fps; NTSC: 1080p@30 fps; CVBS: PAL: 960H; NTSC: 960H			
Resolution		1080p (1920 × 1080); 960H (960 × 576/960 × 480)			
Day/Night		Color			
BLC		BLC; HLC; DWDR			
WDR		DWDR			
White Balance		Auto;Area white balance			
Gain Control		Manual;Auto			
Noise Reduction		3D NR			

Illumination Mode		Smart Light
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 2.9 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		166.4 mm × 69.7 mm × 70.0 mm (6.55" × 2.74" × 2.76")
Net Weight		0.32 kg (0.71 lb)
Gross Weight		0.41 kg (0.90 lb)
Installation		Wall mount; ceiling mount; vertical pole mount

Ordering Information		
Type	Model	Description
HDCVI CAMERA	DH-HAC-HFW1209CMP-A-LED	2MP Full-color HDCVI Fixed-focal Bullet Camera, PAL
	DH-HAC-HFW1209CMN-A-LED	2MP Full-color HDCVI Fixed-focal Bullet Camera, NTSC
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box
	DH-PFA151	Corner Mount Bracket
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA134	Junction Box
	DH-PFM800-E	1 Channel Passive HDCVI Balun
	DH-PFM321-EN	DC12V 1A Power Adapter
	DH-PFM321D-EN	DC12V 1A Power Adapter
	DH-PFM320D-EN	DC12V 2A Power Adapter
	PFM904	Integrated Mount Tester

Accessories

Optional:



DH-PFA130-E  
Water-proof Junction Box



DH-PFA151  
Corner Mount Bracket



DH-PFA152-E  
Pole Mount Bracket



DH-PFA134  
Junction Box



DH-PFM800-E  
1 Channel Passive HDCVI Balun



DH-PFM321-EN  
DC12V 1A Power Adapter



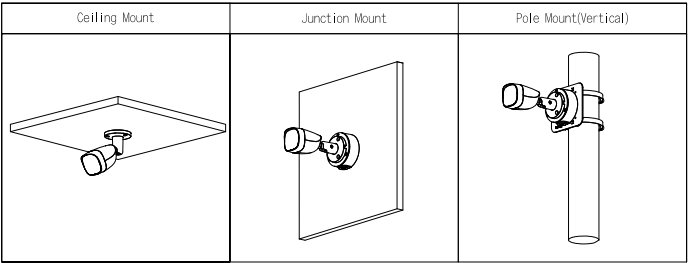
DH-PFM321D-EN  
DC12V 1A Power Adapter



DH-PFM320D-EN  
DC12V 2A Power Adapter



PFM904  
Integrated Mount Tester



Dimensions (mm[inch])

