

DH-HAC-HFW1209C(-A)-LED

2MP Full-color HDCVI Bullet Camera



- 24/7 color imaging
- 20 m illumination distance
- Max. 30 fps@1080p
- Built-in mic (-A)
- CVI/CVBS/AHD/TVI switchable
- Fixed lens (2.8 mm; 3.6 mm optional)
- IP67, 12V±30% DC



System Overview

Experience 2MP full HD color video and the simplicity of reusing existing coaxial infrastructure with HDCVI. The full-color starlight HDCVI camera presents a high quality color image with rich details even in total dark conditions. It offers various fixed lens models with a multi-language OSD and HD/SD switchable output. It adopts one powerful warm white LED illuminators, covering an effective range up to 20 m (65.61 ft). The LEDs switch on automatically in darkness to capture detail-packed full-color images 24/7, ensuring authentic identification of objects. It is an ideal choice for applications such as schools, retail centers and parking lots.

Functions

Full-color

The camera adopts F1.6 large aperture lens and 1/2.8" high performance sensor. With higher amount of absorbed light and advanced image processing algorithm, the camera can present 24/7 colored image that provides color details to accurately identify people or objects in low light conditions.

Warm Supplemental lights

With one warm supplemental LED lights, the camera is able to provide a colorful and vivid image even in total dark. By default, the camera is set to smart light mode, in which the camera can automatically adjust the exposure time and light sensitivity simultaneously to avoid overexposure of the objects in the image center. Also, the sensitivity and intensity of the LED lights can be remotely controlled by OSD menu.

Broadcast-quality Audio*

Audio information is used as supplementary evidence in video surveillance applications. The HDCVI camera supports audio signal transmission over coaxial cable. In addition, it adopts unique audio processing and transmission technology that best restores source audio and eliminates noise, guaranteeing the quality and effectiveness of collected audio information.

*This function is available for select models.

4 Signals over 1 Coaxial Cable

HDCVI technology supports 4 signals to be transmitted over 1 coaxial cable simultaneously, i.e. video, audio*, data and power. Dual-way data transmission allows the HDCVI camera to interact with the XVR, such as sending control signal or triggering alarm.

*Audio input is available for some models of HDCVI cameras.

Long Distance Transmission

HDCVI technology guarantees long-distance and real-time transmission without any loss. It supports up to 700 m for 2MP HD video via coaxial cable, and up to 300 m via UTP cable.*

*Actual results verified by real-scene testing in Dahua's test laboratory.

Simplicity

HDCVI technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HDCVI system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Multiple-formats

The camera supports multiple video formats including HDCVI, CVBS and other two common HD analog formats in the market. The four formats can be switched over through OSD menu or by PFM820 (UTC controller). This feature makes the camera to be compatible with most end users' existing HD/SD DVRs.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 ranking, making it suitable for indoor or outdoor environments. With working temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Supporting ±30% input voltage tolerance, this camera suits even the most unstable power supply conditions. Its 4KV lightning rating provides protection against the camera and its structure from the effects of lightning.

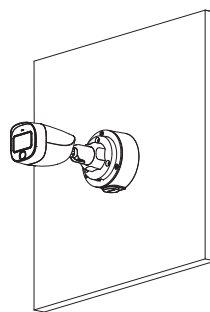
Technical Specification						Noise Reduction		2D NR	
Camera						Smart Light		Yes	
Image Sensor		1/2.8 inch CMOS				Mirror		Off/On	
Effective Pixels		1920 (H) × 1080 (V), 2MP				Privacy Masking		Off/On (8 area, rectangle)	
Scanning System		Progressive				Certifications			
Electronic Shutter Speed		PAL: 1/25 s~1/100000 s NTSC: 1/30 s~1/100000 s				Certifications			
S/N Ratio		> 65 dB				Port			
Minimum Illumination		0.01 Lux/F1.6, 0 Lux white light on				Video Output			
Illumination Distance		Distance up to 20 m (65.61 ft)				Audio Interface			
Illuminator On/Off Control		Auto; manual				Power			
Illuminator Number		1				Power Supply			
Pan/Tilt/Rotation Range		Pan: 0°~360° Tilt: 0°~90° Rotation: 0°~360°				Power Consumption			
Lens						Environment			
Lens Type		Fixed-focal				Operating Temperature			
Mount Type		M12				Storage Temperature			
Focal Length		2.8 mm; 3.6 mm				Protection Grade			
Max. Aperture		F1.6				Structure			
Field of View		2.8 mm: 126.2° × 106° × 56.5° (diagonal × horizontal × vertical); 3.6 mm: 103.6° × 86.9° × 46.3° (diagonal × horizontal × vertical)				Casing			
Iris Type		Fixed iris				Camera Dimensions			
Close Focus Distance		2.8 mm: 0.7 m (2.29 ft); 3.6 mm: 1.2 m (3.94 ft)				Net Weight			
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Gross Weight			
	2.8 mm	43.9 m (144.02 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.43 ft)				
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)				
Video									
Frame Rate		CVI: PAL: 1080p@25 fps; 720p@25 fps; NTSC: 1080p@30 fps; 720p@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); 720p (1280 × 720); 960H (960 × 576/960 × 480)							
BLC		BLC/DWDR							
WDR		DWDR							
White Balance		Auto; manual							
Gain Control		Auto; manual							

Ordering Information

Type	Part Number	Description
2MP Camera	DH-HAC-HFW1209CP-LED 2.8 mm	2MP Full-color HDCVI Bullet Camera
	DH-HAC-HFW1209CN-LED 2.8 mm	
	DH-HAC-HFW1209CP-LED 3.6 mm	
	DH-HAC-HFW1209CN-LED 3.6 mm	
	DH-HAC-HFW1209CP-A-LED 2.8 mm	
	DH-HAC-HFW1209CN-A-LED 2.8 mm	
	DH-HAC-HFW1209CP-A-LED 3.6 mm	
	DH-HAC-HFW1209CN-A-LED 3.6 mm	
Accessories	PFA134	Junction Box
	PFA130-E	IP66 Junction Box
	PFA152-E	Pole Mount Bracket
	PFM321D	12V 1A Power Adapter
	PFM904	Integrated Mount Tester
	PFM820	UTC controller (Only 1080P and below are available)
	PFM800-E	Passive HDCVI Balun

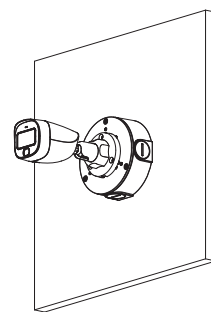
Junction Mount

PFA134



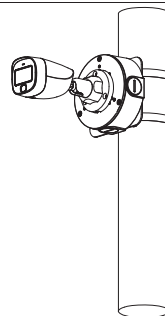
Junction Mount

PFA130-E

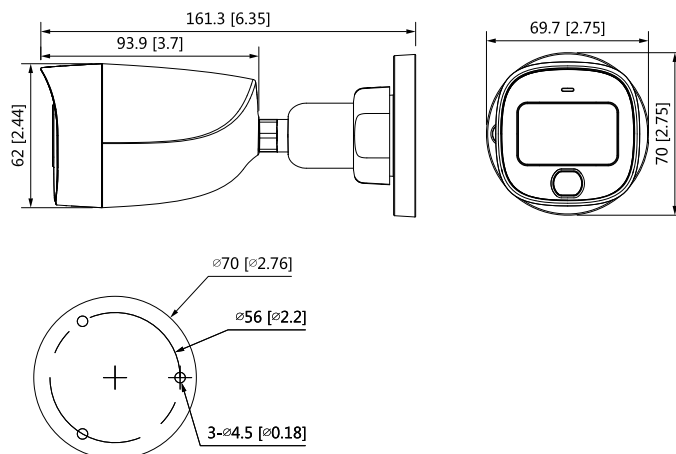


Pole Mount(Vertical)

PFA130-E+PFA152-E



Dimensions (mm[inch])



Accessories

Optional:



PFA134
Junction Box



PFA130-E
IP66 Junction Box



PFA152-E
Pole Mount Bracket



PFM321D
12V 1A Power Adapter



PFM904
Integrated Mount Tester



PFM820
UTC controller
(Only 1080P and below
are available)



PFM800-E
Passive HDCVI Balun