



# **dahua DH-IPC-HFW1439S-A-LED-S4 4MP Entry Full Color Fixed Focal Bullet Network Camera Owner's Manual**

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**dahua DH-IPC-HFW1439S-A-LED-S4 4MP Entry Full Color Fixed Focal Bullet Network Camera**



## Product Information

The DH-IPC-HFW1439S-A-LED-S4 is a 4MP Entry Full-color Fixed-focal Bullet Network Camera designed for small and medium-sized scenes, such as homes, small-sized retail stores, and other small and medium-sized enterprises. It has features of simple installation, easy operation, and high performance-cost ratio. The camera comes equipped with Smart H.265+ & Smart H.264+ encoding technology that provides high-quality video and reduces the cost of storage and transmission. The camera also has Full-color technology which can display clear colorful images in ultra-low illuminance environments. The camera has Dahua Motion Detection technology that triggers an alarm or records when moving objects appear in the monitoring image. The camera employs a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage, to improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

## Product Usage Instructions

1. Mount the camera in a suitable location using the supplied mounting kit.
2. Connect the camera to a power source using the supplied power adapter.
3. Connect the camera to a network using an Ethernet cable.
4. Configure the camera settings using a web browser or management software.
5. Use the camera to monitor the desired area.
6. If required, set up motion detection and configure alarm settings to trigger an alarm or record when moving objects appear in the monitoring image.
7. To ensure cyber security, configure security settings such as secure authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage.

Refer to the user manual for detailed instructions on how to set up and use the camera.

## System Overview

With features of simple installation, easy operation, and a high performance-cost ratio, the Dahua Entry series network camera is applicable to small and medium-sized scenes, such as homes/residences, small-sized retail stores, and other small and medium-sized enterprises.

## Functions

- **Smart H.265+ & Smart H.264+**

With an advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

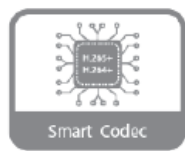
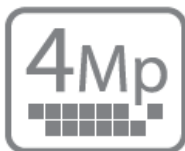
- **Full-color**

With a high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful images in an environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

- **Motion Detection**

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarms or records.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Illumination overexposure remover (face priority), rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict, and illegal access.
- Built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.



- **Cyber Security**

Dahua network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission, and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

- **Protection (IP67, Wide Voltage)**

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows  $\pm 30\%$  (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environments with instable voltage.

## Technical Specification

### Camera

Image Sensor	1/3" CMOS	
Max. Resolution	2560 (H) × 1440 (V)	
ROM	16 MB	
RAM	128 MB	
Scanning System	Progressive	
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s	
Min. Illumination	0.004 Lux@F1.0	
S/N Ratio	>56 dB	
Illumination Distance	30 m (98.43 ft) (warm light)	
Illuminator On/Off Control	Auto; Manual	
Illuminator Number	1 (warm light)	
Pan/Tilt/Rotation Range	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		F1.0				
Field of View		2.8 mm: H: 97°; V: 54°; D: 15°				
		3.6 mm: H: 80°; V: 45°; D: 94°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 1.5 m (4.92 ft)				
		3.6 mm: 2.2 m (7.22 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 m m	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)	
		3.6 m m	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 Compression	H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)	
Smart Codec	Smart H.265+; Smart H.264+	
Video Frame Rate	Main stream: 2560 × 1440 @ (1–25/30 fps)  sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps)  *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.	
Stream Capability	2 streams	
Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps	

Day/Night	Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto;Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2560 × 1440 resolution and lower)	
Mirror	Yes	
Privacy Masking	4 areas	

## Audio

Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; G.726; PCM

## Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio exception; security exception	
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## Network

Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP	
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P	
User/Host	6 (Total bandwidth: 36 M)	
Storage	FTP	
Browser	IE Chrome Firefox	
Management Software	DSS; DMSS	
Mobile Client	iOS; Android	
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; Generation and importing of X.509 certification	

## Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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## Power

Power Supply	12 VDC/PoE (802.3af)
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Power Consumption	Basic: 2 W (12 VDC); 3.1 W (PoE) Max. (WDR+H.265+ max. Illumination): 4 W (12 VDC); 5.4 W (PoE)
Environment	
Operating Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Protection	IP67
Structure	
Casing Material	Metal
Product Dimensions	162.1 mm × Φ70.1 mm (6.38" × Φ2.76")
Net Weight	0.31 kg (0.68 lb)
Gross Weight	0.44 kg (0.97 lb)

## Ordering Information

Type	Model	Description
4MP Camera	DH-IPC-HFW1439S-A-LED-S4	4MP Entry Full-color Fixed-focal Bullet Network Camera
Accessories (Optional)	PFA134	Junction Box
	PFA130-E	Junction Box
	PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1 A Power Adapter
	PFM900-E	Integrated Mount Tester

Accessories



PFA134  
Junction  
Box



PFA130-E  
Junction  
Box



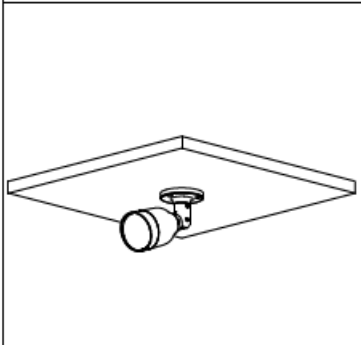
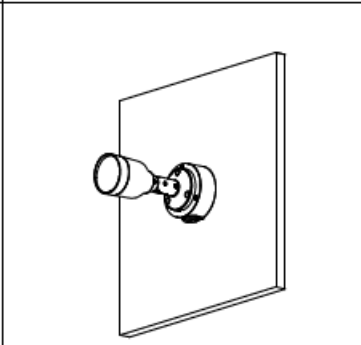
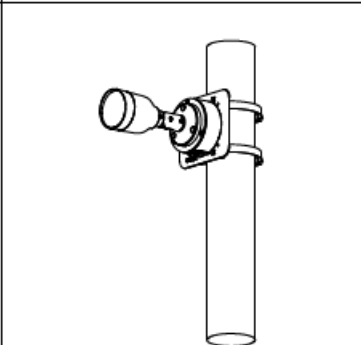
PFA152-E  
Pole Mount  
Bracket



PFM321D  
12 VDC 1A  
Power Adapter

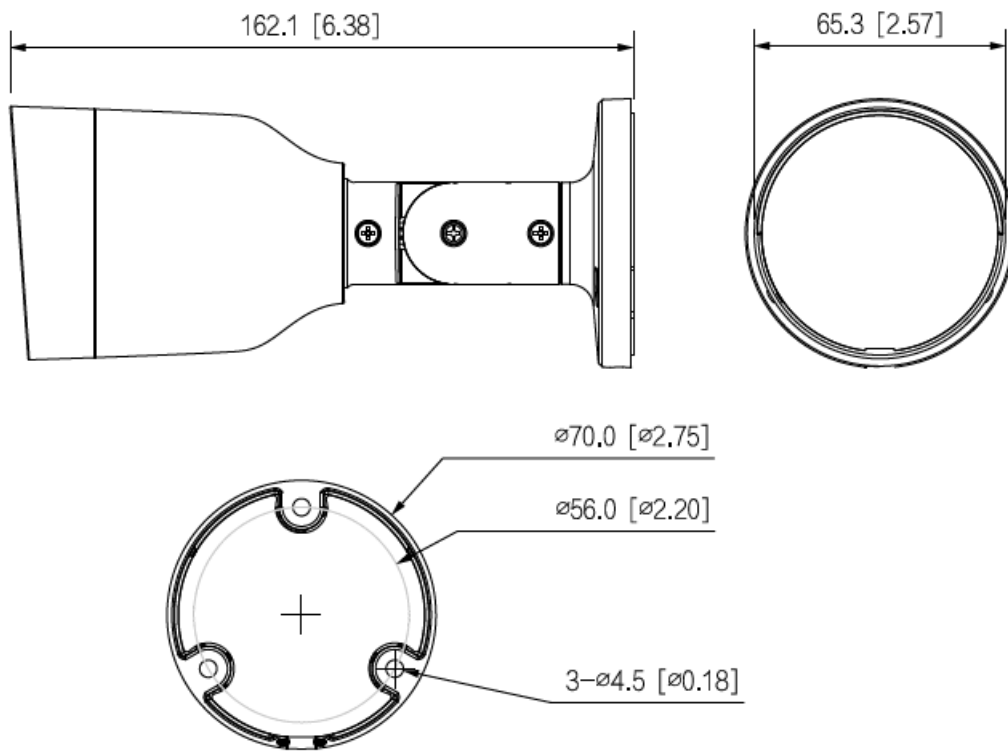


PFM900-E  
Integrated  
Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
		

Dimensions

(mm[inch])




#### Rev 002.000

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The images, specifications and information mentioned in the document are only for reference, and might differ from the actual product

[www.dahuasecurity.com](http://www.dahuasecurity.com)

#### Documents / Resources

	<p><a href="#">dahua DH-IPC-HFW1439S-A-LED-S4 4MP Entry Full Color Fixed Focal Bullet Network Camera</a> [pdf] Owner's Manual</p> <p>DH-IPC-HFW1439S-A-LED-S4 4MP Entry Full Color Fixed Focal Bullet Network Camera, DH-IPC-HFW1439S-A-LED-S4 4MP, Entry Full Color Fixed Focal Bullet Network Camera, Fixed Focal Bullet Network Camera, Bullet Network Camera, Network Camera, Camera</p>
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#### References

- [Dahua Technology USA Inc - Dahua Technology USA Inc](#)