

dahua IPC-HFW1239TL1-A-IL Smart Dual Light Fixed Focal  
Bullet Network Camera



# dahua IPC-HFW1239TL1-A-IL Smart Dual Light Fixed Focal Bullet Network Camera User Guide

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**dahua IPC-HFW1239TL1-A-IL Smart Dual Light Fixed Focal Bullet Network Camera**



### **Specifications:**

- Model: DH-IPC-HFW1239TL1-A-IL
- Type: 2MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
- Image Sensor: 1/2.8 CMOS
- Max. Resolution: 2MP
- ROM: 128 MB
- RAM: 128 MB
- Scanning System: Progressive
- Min. Illumination:
  - Color: 0.005 lux@F1.6 (30 IRE)
  - B/W: 0.0005 lux@F1.6 (30 IRE)
  - Illuminator On: 0 lux
- S/N Ratio: >56 dB
- Illumination Distance: Up to 30 m (98.43 ft) (IR LED & Warm light)
- Illuminator Control: Auto; Manual
- Lens:
  - Type: Fixed-focal
  - Mount: M12
  - Focal Length: 2.8 mm; 3.6 mm
  - Max. Aperture: F1.6
  - Field of View
  - Iris Control

### **Product Usage Instructions**

#### **Installation:**

1. Choose a suitable mounting location for the camera.
2. Securely mount the camera using appropriate screws and brackets.
3. Connect the camera to a power source and network using the provided cables.
4. Adjust the angle of the camera lens for optimal view coverage.

## Configuration:

1. Access the camera's web interface using its IP address.
2. Set up network settings, including IP address, subnet mask, gateway, etc.
3. Configure video settings such as resolution, frame rate, and encoding format.
4. Enable desired features like Smart Dual Light, Human Detection, and Cyber Security protocols.

## Operation:

1. Access the camera feed through a compatible device or software.
2. Monitor live footage and recordings.
3. Utilize features like Smart Dual Light for enhanced night vision and Human Detection for accurate alerts.

## Frequently Asked Questions

- **Q: Can this camera be used outdoors?**
  - A: Yes, the camera is suitable for outdoor use with its weatherproof design.
- **Q: How can I reset the camera to default settings?**
  - A: To reset the camera, locate the reset button on the device and hold it for about 10 seconds until the camera restarts.
- **Q: Does the camera support remote viewing?**
  - A: Yes, you can remotely access the camera feed using compatible mobile apps or software.

## Series 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 Dual Light

Dahua Smart Dual Light technology adopts a smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshots and video with full-colour images. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

### Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filter out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

### Smart H.265+ & Smart H.264+

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

transmission.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920× 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, the max. IR illumination distance is 30 m and warm light distance is 30 m.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict and illegal access.
- Built in Mic.
- 12 VDC/PoE power supply,
- IP67 protection.
- Supports human detection.



## Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

## 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	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.005 <a href="#">lux@F1.6</a> (Color,30 IRE) 0.0005 <a href="#">lux@F1.6</a> (B/W,30 IRE) 0 lux (II luminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 30 m (98.43 ft) (IR LED) Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	2 (IR LED); 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: 104°; V: 55°; D: 124° 3.6 mm: H: 88°; V: 44°; D: 105°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	44.1 m (144.69 ft)	17.7 m (58.07 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)
	3.6 mm	58.9 m (193.24 ft)	23.6 m (77.43 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)

## Intelligence

Human Detection	Support the classification and accurate detection of human
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

## Video

Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	<p>Main stream: 1920 × 1080@(1–25/30 fps)</p> <p>Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)</p> <p>*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.</p>

Stream Capability	2 streams
Resolution	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–4096 kbps H.265: 12 kbps–4096 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
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 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

## Audio



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

## Alarm

Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); 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; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	ONVIF (Profile S; Profile T); CGI
User/Host	6 (Total bandwidth: 24 M)
Storage	FTP
Browser	IE; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS
Mobile Client	iOS;Android
Cyber Security	Configuration encryption;Trusted execution;Digest;Security logs;HTTPS;Trusted upgrade;WSSE;Trusted boot;Account lockout;Generation and importing of X.509 certification;Video encryption

## Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
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## Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.8 W (12 VDC); 2.3 W (PoE) Max. (H.265 + intelligence on+ WDR + illuminator intensity): 6.3 W (12 VDC); 7.8 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)
Storage Humidity	≤95%
Protection	IP67

## Structure

Casing Material	Metal+plastic
Product Dimensions	197.9 mm × 80.2 mm × 76.2 mm (7.79" × 3.16" × 3.00") (L × W × H)
Net Weight	0.31 kg (0.68 lb)
Gross Weight	0.45 kg (0.99 lb)

## Ordering Information

Type	Model	Description
2MP Camera	DH-IPC-HFW1239TL1-A-IL	2MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
Accessories (Optional)	PFA134	Junction Box
	PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester

## Accessories

### Optional:



PFA134  
Junction Box



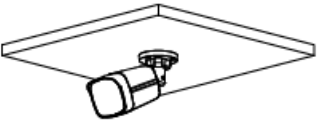
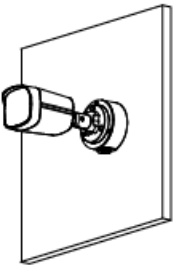
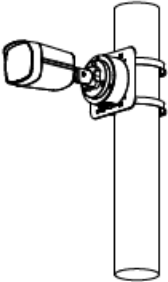
PFA152-E  
Pole Mount  
Bracket



PFM321D  
12 VDC 1 A  
Power Adapter

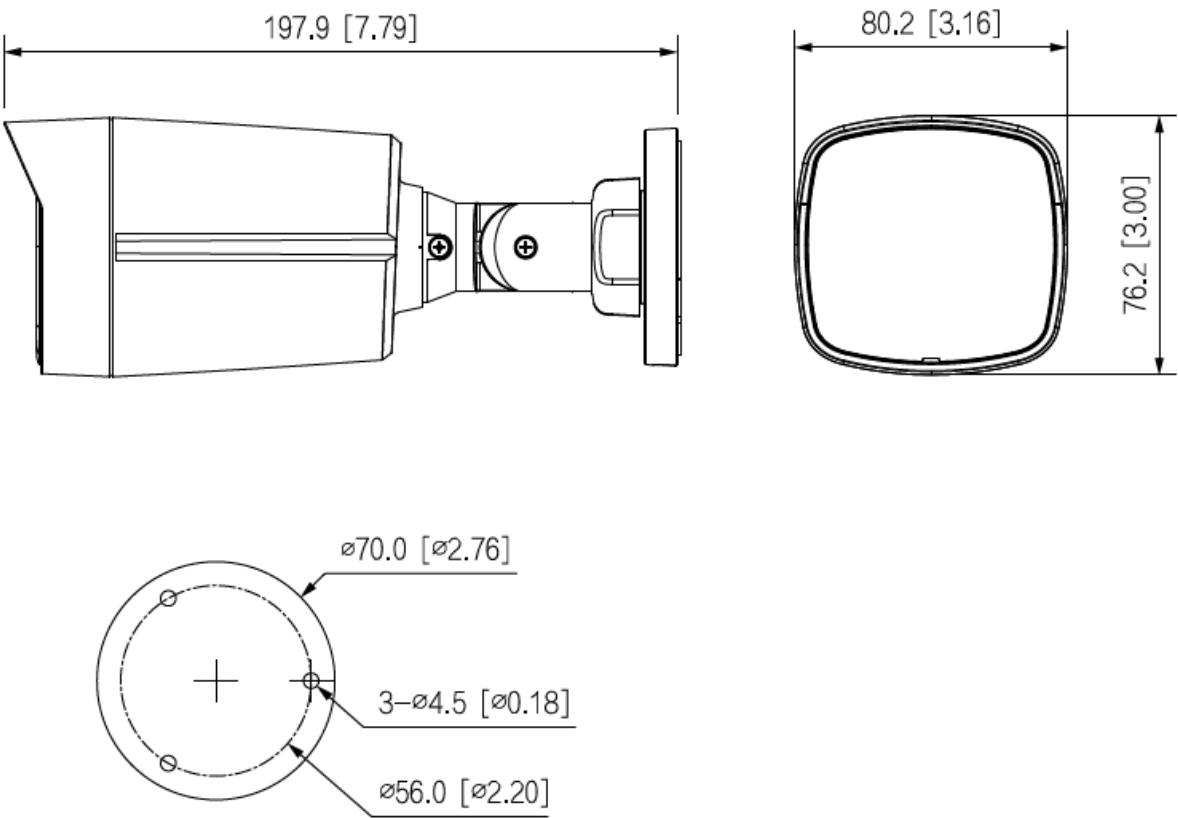


PFM900-E  
Integrated  
Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
		

### Dimensions


Dimensions (mm[inch])



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

Documents / Resources

	<p><a href="#">dahua IPC-HFW1239TL1-A-IL Smart Dual Light Fixed Focal Bullet Network Camera</a> [pdf] User Guide</p> <p>IPC-HFW1239TL1-A-IL Smart Dual Light Fixed Focal Bullet Network Camera, IPC-HFW1239TL1-A-IL, Smart Dual Light Fixed Focal Bullet Network Camera, Light Fixed Focal Bullet Network Camera, Focal Bullet Network Camera, Bullet Network Camera, Network Camera</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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