

dahua
TECHNOLOGY
DH-IPC-HFW1639TC-A-IL
Entry Smart Dual Light
Fixed Focal Bullet
Network Camera



Dahua DH-IPC-HFW1639TC-A-IL Entry Smart Dual Light Fixed Focal Bullet Network Camera Owner's Manual

[Home](#) » [Dahua](#) » Dahua DH-IPC-HFW1639TC-A-IL Entry Smart Dual Light Fixed Focal Bullet Network Camera Owner's Manual 📄

Contents

- 1 Dahua DH-IPC-HFW1639TC-A-IL Entry Smart Dual Light Fixed Focal Bullet Network Camera
- 2 Product Usage Instructions
- 3 FAQ
- 4 Series Overview
- 5 Functions
- 6 Technical Specification
- 7 Ordering Information
- 8 Accessories
- 9 Dimensions
- 10 Documents / Resources
 - 10.1 References
- 11 Related Posts



Dahua DH-IPC-HFW1639TC-A-IL Entry Smart Dual Light Fixed Focal Bullet Network Camera



Specifications

- **Product Name:** Entry Series | DH-IPC-HFW1639TC-A-IL
- **Model:** DH-IPC-HFW1639TC-A-IL
- **Description:** 6MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
- **Overview:** The Dahua Entry series network camera is designed for small and medium-sized scenes like homes, small retail stores, and enterprises.

Product Usage Instructions

Functions

- **Smart Dual Light:** Automatically switches between IR illuminator and white light for full-color video recording.
- **Human Detection:** Algorithms detect moving human targets to filter out non-human triggered alarms.
- **Smart Encoding:** Utilizes advanced encoding technology for higher efficiency and reduced storage costs.
- **Cyber Security:** Implements security technologies for protection against cyber threats.

Technical Specifications

- **Image Sensor:** 1/2.7 CMOS
- **Max. Resolution:** 6MP
- **ROM:** 128 MB
- **RAM:** 256 MB
- **Scanning System:** Progressive

Intelligence Features

- **Human Detection:** Supports accurate detection and classification of humans.
- **Smart Search:** Works with Smart NVR for intelligent search and event extraction.

FAQ

Q: How do I switch between IR illuminator and white light in Smart Dual Light mode?

A: The camera automatically switches based on detected targets. White light is triggered when a target appears in the monitoring area.

Q: What is the DORI Distance specification for the lens?

A: DORI (Detect, Observe, Recognize, Identify) distances are provided for different focal lengths of the lens to define viewing abilities within a covered area.

Series Overview

With features of simple installation, easy operation, and a high performance-cost ratio, the Dahua Entry series network camera applies 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 videos with full-color 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

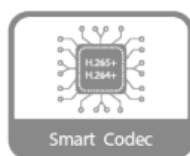
- Dahua intelligent algorithms extract moving human targets from videos and filter out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

Smart H.265+ & Smart H.264+

- With 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.

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.
- The parameters and datasheets below can only be applied to the 1639-S6 series.
- 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 6 MP (3200 × 1800) @20 fps, and supports 2688 × 1520@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in Multi-core Light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, and digital watermarking, applicable to various monitoring scenes.
- Built-in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- Supports human detection.



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 tests on dust and soak. It has a 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

Image Sensor	1/2.7" CMOS
Max. Resolution	3200 (H) × 1800 (V)
ROM	128 MB
RAM	256 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.007 lux@F1.6 (Color, 30 IRE); 0.0007 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)
S/N Ratio	56 dB
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	1 (Multi-core (IR + 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: 110°; V: 58°; D: 132° 3.6 mm: H: 91°; V: 46°; D: 110°				
Iris Control	Fixed				
Close Focus Distance	2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	63.6 m (208.66 ft)	25.4 m (93.33 ft)	12.7 m (41.67 ft)	6.4m (21.00 ft)
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)
	<p>*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 the installation and commissioning manual/project design tool.</p>				

Intelligence

- **Human Detection** Support the classification and accurate detection of human
- **Smart Search** Works together with Smart NVR to perform the refined 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: 3200 × 1800@(1–20 fps)/2688 × 1520@(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	<p>6M (3200 × 1800); 4M (2880 × 1620/2688 × 1520); 3M (2048 × 1536/2304 × 1296); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)</p>
Bit Rate Control	VBR;CBR
Video Bit Rate	H.264: 32 kbps–8192 kbps; H.265: 12 kbps–8192 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
Smart Dual Light	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Mirror Privacy Masking	Yes 4 areas
Audio	
Built-in MIC Audio Compression	Yes, built-in Mic 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
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	20 (Total bandwidth: 48 M)
Storage	FTP

Browser	IE; Chrome; Firefox
Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care
Mobile Client	iOS;Android
Cyber Security Certification Certifications Power Power Supply	Video encryption; Configuration encryption;Digest; WSSE;Account lock out; Security logs; Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade
	CE-LVD: EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
	12 VDC/PoE (802.3af)
Power Consumption Environment Operating Temperature	Basic: 2 W (12 VDC), 2.9 W (PoE); Max.: 4 W (12 VDC), 5.3 W (PoE) (H.265 + intelligence on+ DWDR + illuminator intensity)
	−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 Structure Casing Material	IP67
	Metal
Product Dimensions	173.3 mm × 70.0 mm × 70.0 mm (6.82" × 2.76" × 2.76") (L × W × H)
Net Weight	0.44 kg (0.97 lb)
Gross Weight	0.55 kg (1.21 lb)

Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-HFW1639TC-A-IL	6MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
Accessories (Optional)	G3416GW	G3/4" Water Joint
	DH-PFA130-E	Water-proof Junction Box
	DH-PFA151	Corner mount bracket
	DH-PFA152-E	Pole Mount Bracket
	DH-PFA134	Junction box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM321D-EN	DC12V 1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PFM900-E	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-PFM321-EN
DC12V1A power adapter



DH-PFM321D-EN
DC12V 1A power adapter



DH-PFM320D-EN
DC12V2A power adapter



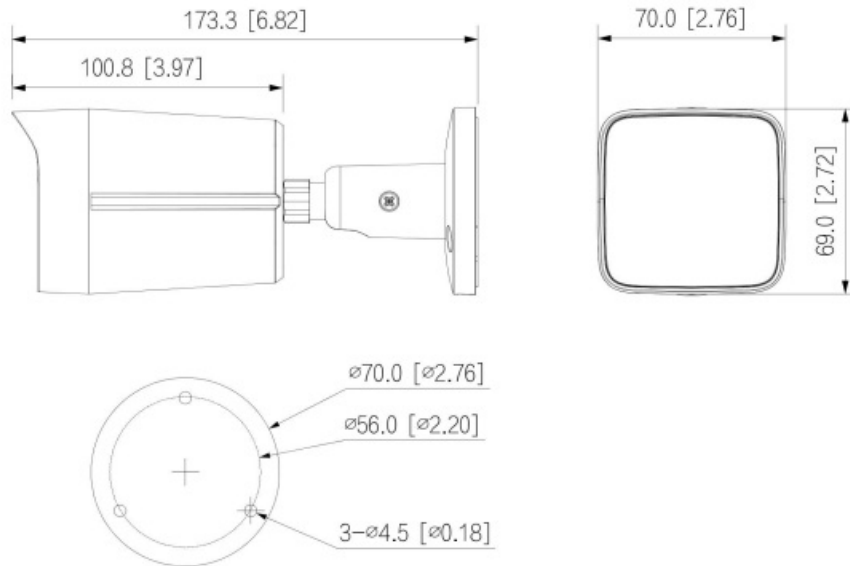
PFM900-E
Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions

Dimensions (mm[inch])


mm [inch]



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- Design and specifications are subject to change without notice.
- Pictures in the document are for reference only, and the actual product shall prevail.

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Documents / Resources

	<p>Dahua DH-IPC-HFW1639TC-A-IL Entry Smart Dual Light Fixed Focal Bullet Network Camera [pdf] Owner's Manual</p> <p>DH-IPC-HFW1639TC-A-IL Entry Smart Dual Light Fixed Focal Bullet Network Camera, DH-IPC-HFW1639TC-A-IL, Entry Smart Dual Light Fixed Focal Bullet Network Camera, Light Fixed Focal Bullet Network Camera, Focal Bullet Network Camera, Bullet Network Camera, Network Camera, Camera</p>
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References

- [Dahua Technology - World Leading Video-Centric AIoT Solution & Service Provider](#)
- [User Manual](#)

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