

# DH-IPC-HDW1239T1-IL

## 2MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera



### Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, 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 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 snapshot and video with full-color image. 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 filters 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.

- \* The parameters and datasheets below can only be applied to 1239-S6 series
- 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 multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- 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, network disconnection, IP conflict, illegal access.
- 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 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 environment with instable voltage.

Smart Codec

Smart H.265+; Smart H.264+

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# Entry Series

## Technical Specification

Image Sensor	1/2.8" CMOS
Max. Resolution	(H) × 1080 (V)
ROM	MB
RAM	MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 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	(Multi-core (IR + warm) light)
Angle Adjustment	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°
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: 103°; V: 55°; D: 123° 3.6 mm: H: 87°; 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)

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)

**DORI Distance**

\*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.

**Human Detection**

Support the classification and accurate detection of human

**Video Compression**

Work together with Smart NVR to perform refine intelligent search, event extraction and marking to H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)

### Camera

#### Lens

#### Alarm

#### Network

#### Intelligence

#### Video

## IP-C-HD W1 239 T1-IL

#### Video Frame Rate

#### Stream Capability

#### Resolution

#### Bit Rate Control

#### Video Bit Rate

#### Day/Night

#### BLC

#### HLC

#### WDR

#### White Balance

#### Gain Control

#### Noise Reduction

#### Motion Detection

#### Region of Interest (RoI)

#### Smart Illumination

#### Smart Dual Light

#### Image Rotation

#### Mirror

#### Privacy Masking

#### Alarm Event

#### Network Port

#### SDK and API

#### Network Protocol

#### Interoperability

#### User/Host

#### Storage

#### Browser

#### Management Software

#### Mobile Client

Main stream: 1920 × 1080@(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.

streams

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)

VBR;CBR

H.264: 32 kbps–4096 kbps;  
H.265: 12 kbps–4096 kbps

Auto(ICR)/Color/B/W

Yes

Yes

DWDR

Auto; natural; street lamp; outdoor; manual; regional custom

Auto/Manual

3D NR

OFF/ON (4 areas, rectangular)

Yes (4 areas)

Yes

Yes

0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)

Yes

areas

Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception; SMD (human)

RJ-45 (10/100 Base-T)

Yes

IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P

ONVIF (Profile S & Profile T); CGI

(Total bandwidth: 24 M)

FTP

IE; Chrome; Firefox

Smart PSS Lite; DSS; DMSS; DoLink Care

iOS;Android

# Entry Series

**Cyber Security**  
Video encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; HTTPS; Trusted boot; Trusted execution; Trusted upgrade

**Certifications**  
CE-LVD: EN62368-1;  
CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

**Environment**

**Power**

**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

## Accessories

Optional:

**Certification**

DH-PFB305W Wall mount bracket	DH-PFA150 Pole Mount Bracket	DH-PFA152-E Pole Mount Bracket
DH-PFB220C Ceiling Mount Bracket	DH-PFA106 Mount Adapter	DH-PFA151 Corner mount bracket



**Casing Material**  
Inner core: Metal + Plastic;  
Cover: Plastic;  
Decoration ring: Plastic;  
Pedestal: Plastic

**Product Dimensions** 85.5 mm × Φ109 mm (3.37" × Φ4.29")

**Net Weight** 0.25 kg (0.55 lb)

**Gross Weight** 0.36 kg (0.79 lb)

**Power Supply** 12 VDC/PoE (802.3af)

**Power Consumption**  
Basic: 1.4 W (12 VDC), 2.2 W (PoE);  
Max.: 3.3 W (12 VDC), 4.4 W (PoE) (H.265 + intelligence on + warm light intensity)



DH-PFB203W  
Wall mount bracket

DH-PFA136  
Junction box

DH-PFM321-EN  
DC12V1A power adapter



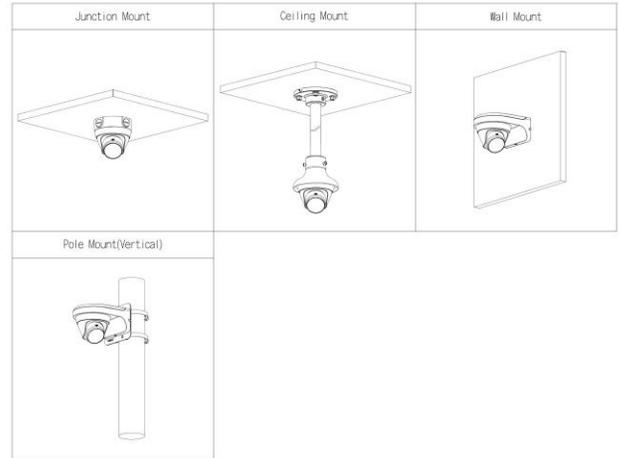
**Structure**

## | DH-IPC-HDW1239T1-IL

### Ordering Information

Type	Model	Description	
IP CAMERA	DH-IPC-HDW1239T1-IL	2MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera	
	DH-PFB220C	Ceiling Mount Bracket	
	DH-PFA106	Mount Adapter	
	DH-PFA151	Corner mount bracket	
	DH-PFB305W	Wall mount bracket	
	DH-PFA150	Pole Mount Bracket	
	DH-PFA152-E	Pole Mount Bracket	
	Accessories (Optional)	DH-PFB203W	Wall mount bracket
		DH-PFA136	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	

Dimensions (mm [inch])



mm [inch]

