

DH-IPC-HDW1239V-A-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.

- 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.

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 ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment 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 lux@F1.6 (Color,30 IRE) 0.0005 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 LED) Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	1 (IR LED); 1 (Warm light)
Angle Adjustment	Pan: 0°–360° Tilt: 0°–78° 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)

*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.

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

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.

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

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

Security	Trusted execution;Digest;security logs;HTTPS;trusted upgrade;WSSE;trusted boot;account lockout;generation and importing of X.509 certification
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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): 4.5 W (12 VDC); 5.6 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	Inner core: Metal+plastic Cover: Plastic
Product Dimensions	100.9 mm × Φ109.9 mm (3.97" × Φ4.33")
Net Weight	0.33 kg (0.73 lb)
Gross Weight	0.45 kg (0.99 lb)

Ordering Information

Type	Model	Description
2MP Camera	DH-IPC-HDW1239V-A-IL	2MP Entry Smart Dual Light Fixed-focal Eyeball Network Camera
Accessories (Optional)	PFA13G	Junction Box
	PFB205W-E	Wall Mount Bracket
	PFA152-E	Pole Mount Bracket
	PFA109	Mount Adapter
	PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:



PFA13G
Junction Box



PFB205W-E
Wall Mount Bracket



PFA152-E
Pole Mount Bracket



PFA109
Mount Adapter



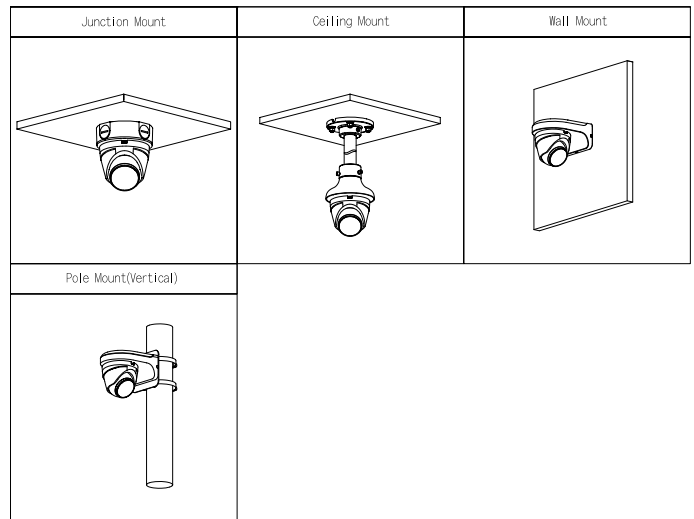
PFB220C
Ceiling Mount Bracket



PFM321D
12 VDC 1 A
Power Adapter



PFM900-E
Integrated
Mount Tester



Dimensions (mm[inch])

