Manuals+ — User Manuals Simplified.

dahua DH-IPC 2MP IP-Camera User Guide

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Contents

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 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.

Full-color
With high-performance sensor and large aperture lens, Dahua Full color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.
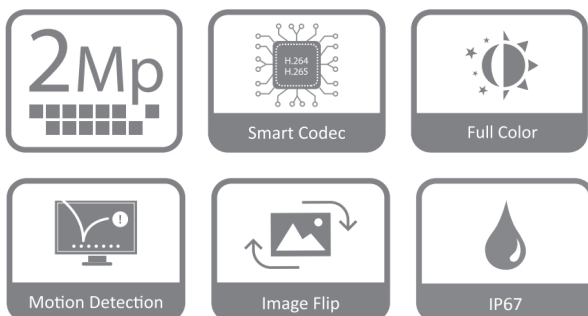
Motion Detection
When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

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.

- 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 warm light, and the max. illumination distance is 15 m.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, privacy masking, network disconnection, IP conflict, and illegal access.
- 12 VDC/PoE power supply.
- 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 works normal 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	16 MB
RAM	64 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	2.8 mm: 10 m (32.81 ft) (Warm light) 3.6 mm: 15 m (49.21 ft) (Warm light)
Illuminator On/Off Control	Auto; Manual

Illuminator Number	1 (Warm light)
Pan/Tilt/Rotation Range	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	2.8 mm: F1.6 3.6 mm: F1.6
Field of View	2.8 mm: Horizontal: 106°; Vertical: 56°; Diagonal: 127° 3.6 mm: Horizontal: 880; Vertical: 46°; Diagonal: 104°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.1 m (3.61 ft)

	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	43.9 m (144.0 ft)	17.5 m (57.4 ft)	8.8 m (28.9 ft)	4.4 m (14.4 ft)
	3.6 mm	54.8 m (179.8 ft)	21.9 m (71.9 ft)	11.0 m (36.1 ft)	5.5 m (18.0ft)

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: 1920 × 1080@1 fps–25/30 fps Sub stream: 704 × 576@1 fps–25 fps 704 × 480@1 fps–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–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	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

Alarm

Alarm Event: Network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception.

Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; Generation and importing of X.509 certification; Trusted boot; Trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Interoperability	ONVIF(Profile S); CGI; P2P
User/Host	6 (Total bandwidth: 36 M)
Storage	FTP
Browser	IIE; Chrome; Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

Certification

CE-LVD: EN 62368-1
CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
FCC: 47 CFR FCC Part 15, Subpart B

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.4 W (12 VDC); 2.2 W (PoE) Max. (H.265+IR intensity+ICR): 4.2 W (12 VDC); 5.3 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	Inner core: Metal + plastic Cover: Plastic Decoration ring: Plastic Pedestal: Plastic
Product Dimensions	85.5 mm × Φ109 mm (3.37″ × Φ4.29″)
Net Weight	0.24 kg (0.53 lb)
Gross Weight	0.37 kg (0.82 lb)

Ordering Information

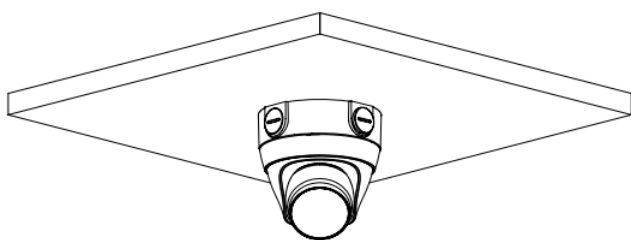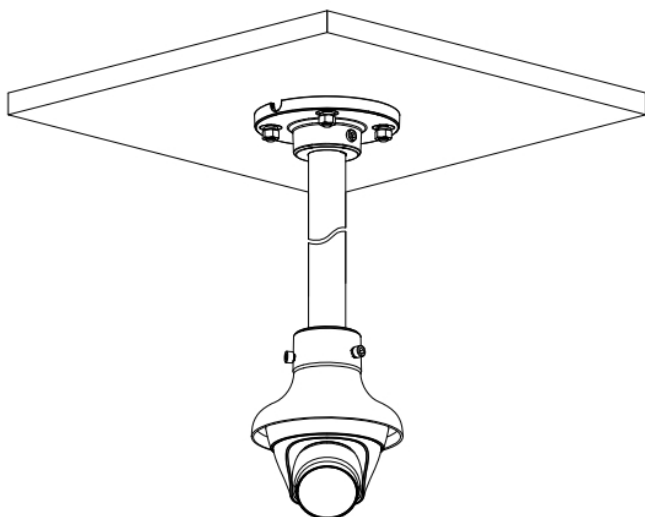| Type	Model	Description
2 MP Camera	DH-IPC-HDW1239T1-LED-S4	2 MP Entry Full-color Fixed-focal Bullet Netwok Camera
Accessories (Optional)	PFA136	Junction Box
	PFB203W+PFA152-E	Pole Mount Bracket
	PFB203W	Wall mount Bracket
	PFA106+PFB220C	Ceiling Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester

Accessories

Optional:

- PFA136 Junction Box

- PFB203W+PFA152-E Pole Mount Bracket

- PFB203W Wall mount Bracket

- PFA106+PFB220C Ceiling Mount Bracket

- PFM321D 12 VDC 1A Power Adapter

- LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender
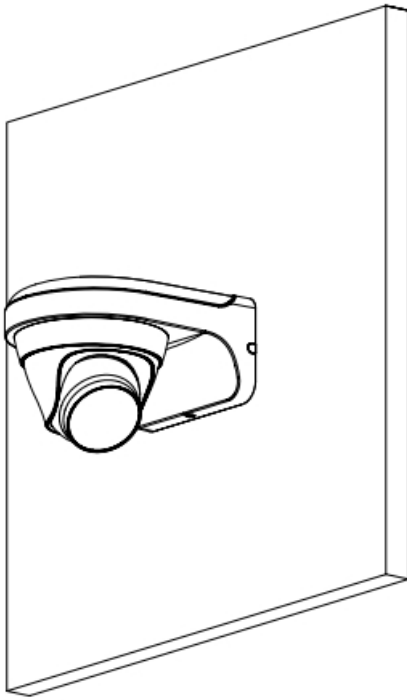

- PFM900-E Integrated Mount Tester

- Junction Mount

- Ceiling Mount
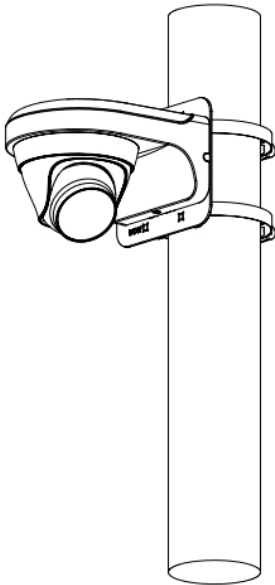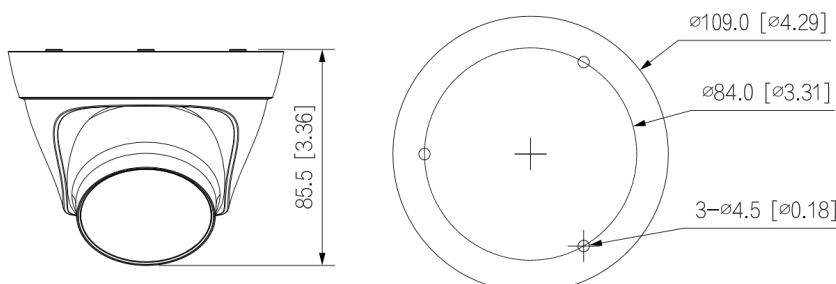

- Wall Mount

- Pole Mount(Vertical)

Dimensions (mm[inch])

85.5 [3.36]

⌀109.0 [⌀4.29]

⌀84.0 [⌀3.31]

3−⌀4.5 [⌀0.18]

Documents / Resources

[dahua DH-IPC 2MP IP-Camera](#) [pdf] User Guide
DH-IPC-HDW1239T1-LED-S4, DH-IPC, 2MP IP-Camera, 2MP Camera, IP Camera, Camera,
Network Camera

References

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

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