DH-IPC-HFW1239MP-A-IL

2MP Smart Dual Light Fixed-focal Bullet Network Camera

Functions

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.

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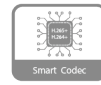
Human Detection
Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

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.

· 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
· Outputs max. 2 MP (1920 × 1080)@25 fps.
· H.265 codec, high compression rate, ultra-low bit rate.
· Built-in warm light and IR LED, the max. warm light distance is 30m and the max. IR distance is 80m.
· Rotation mode, WDR, 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.
· Built in Mic.
· 12 VDC/PoE (802.3af) power supply, easy for installation.
· IP67 protection.
· Supports human detection.

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.

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	0.01 lux@F1.6 (Color, 30 IRE) 0.001 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
Illumination Distance	Up to 80m (IR) Up to 30m (Warm light)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	2 (IR LED); 2 (Warm light)

Lens

Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	3.6 mm
Max. Aperture	F1.6
Field of View	H: 87°; V: 44°; D: 105°
Iris Control	Fixed
Close Focus Distance	1.3 m (4.27 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	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

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.

Streaming 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	Yes
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 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; security exception; SMD (human)

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	SmartPSS Lite; DSS; DMSS
Mobile Client	iOS;Android

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

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.3 W (12 VDC); 2.0 W (PoE); Max.: 4.9 W (12 VDC); 6.0 W (PoE) (H.265 + intelligence on +illuminator on)

Environment

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

Structure

Casing Material	Metal + Plastic
Product Dimensions	194.4 mm × 96.6 mm × 89.5 mm (7.65" × 3.80" × 2.72") (L × W × H)
Net Weight	0.59 kg (1.30 lb)
Gross Weight	1.07 kg (2.36 lb)

Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-HFW1239MP-A-IL	2MP Smart Dual Light Fixed-focal Bullet Network Camera
Accessories (Optional)	DH-PFA162	Universal Joint
	DH-PFB110W	Ceiling Mount Bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFA121	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFB121W	Wall Mount Bracket
	DH-PFA152-E	Pole Mount Bracket
	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-PFA162
Universal Joint

DH-PFB110W
Ceiling Mount Bracket

DH-PFA150
Pole Mount Bracket

DH-PFA121
Water-proof Junction Box

G3416GW
G3/4" Water Joint

DH-PFB121W
Wall Mount Bracket

DH-PFA152-E
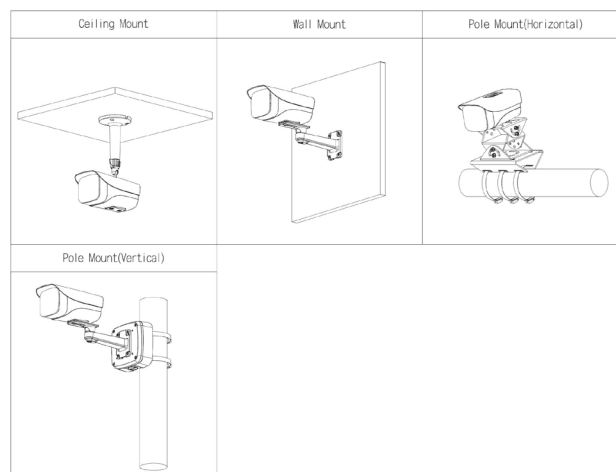Pole Mount Bracket

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(Horizontal)
Pole Mount(Vertical)		

Dimensions (mm[inch])

mm [inch]

194.4 [7.65]

96.6 [3.80]

89.5 [3.52]

175.2 [6.9]

2-1/4-20 UNC-2Bx6.0

31.0 [1.22]