

DH-IPC-HFW1239TL1-A-IL

2MP Entry Smart Dual Light Fixed-focal Bullet 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.

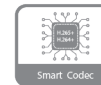


Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

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 ±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		2 (IR LED); 2 (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: 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)
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	
Cyber Security		Configuration encryption;Trusted execution;Digest;Security logs;HTTPS;Trusted upgrade;WSSE;Trusted boot;Account lockout;Generation and importing of X.509 certification;Video encryption	

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): 6.3 W (12 VDC); 7.8 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	Metal+plastic
Product Dimensions	197.9 mm × 80.2 mm × 76.2 mm (7.79" × 3.16" × 3.00") (L × W × H)
Net Weight	0.31 kg (0.68 lb)
Gross Weight	0.45 kg (0.99 lb)

Ordering Information

Type	Model	Description
2MP Camera	DH-IPC-HFW1239TL1-A-IL	2MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
Accessories (Optional)	PFA134	Junction Box
	PFA152-E	Pole Mount Bracket
	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:



PFA134
Junction Box



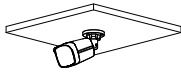
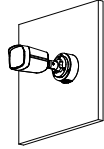
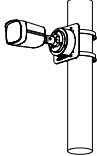
PFA152-E
Pole Mount
Bracket



PFM321D
12 VDC 1 A
Power Adapter



PFM900-E
Integrated
Mount Tester

Ceiling Mount	Wall Mount	Pole Mount (Vertical)
		

Dimensions (mm[inch])

