IPC-HFW1249S-S-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.

SMD Plus

With intelligent algorithm, Dahua Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

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 warm light/IR LED, the max. illumination distance is 30 m and the max. warm light distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · Supports human detection and vehicle detection.











Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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.

Technical	Specification	on					1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280
Camera						Resolution	×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.8" CMOS				Bit Rate Control	CBR/VBR
Max. Resolution		1920 (H) × 1080 (V)				Video Bit Rate	H.264: 32 kbps-6144 kbps; H.265: 12 kbps-6144 kbps
ROM		128 MB				Day/Night	Auto (ICR)/Color/B/W
RAM		128 MB				BLC	Yes
Scanning System		Progressive				HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				WDR	120 dB
Min. Illumination		0.002 lux@F1.6 (Color, 30 IRE) 0.0002 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
S/N Ratio		>56 dB				Gain Control	Auto; Manual
Illumination	Distance	up to 30 m (98.43 ft) (IR); up to 30 m (98.43 ft) (Warm				Noise Reduction	3D NR
		light)				Motion Detection	OFF/ON (4 areas, rectangular)
	On/Off Control	Auto; Manual				Region of Interest (RoI)	Yes (4 areas)
Illuminator N	Number	1 (IR LED); 1 (Warm light)				Smart Illumination	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support with 1080p resolution and lower)
Lens						Mirror	Yes
Lens Type		Fixed-focal				Privacy Masking	4 areas
Lens Mount		M12				Audio	
Focal Length	1	2.8 mm; 3.6 mm				Built-in MIC	Yes
Max. Apertu	ire	F1.6				Audio Compression	G.711a; G.711Mu; PCM; G.726
Field of View	1		07°; V: 56°; D: 1 8°; V: 44°; D: 1			Alarm	
Iris Control Close Focus Distance		Fixed 2.8 mm: 0.7 m (2.30 ft); 3.6 mm: 1.3 m (4.27 ft)				Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; SMD(human); voltage detection; security exception
	Lens	Detect	Observe	Recognize	Identify	Network	
DORI	2.8 mm	43.9 m (144.03 ft)	17.5 m (57.41 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	Network Port	RJ-45 (10/100 Base-T)
Distance	3.6 mm	58.9 m	23.6 m	11.8 m	5.9 m	SDK and API	Yes
Intelligen		(193.24 ft) (77.43 ft) (38.71 ft) (19.35 ft)			Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast;	
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					ICMP; IGMP
Video		videos				Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
		H.264H; H.265; H.264; H.264B; MJPEG (Only supported				User/Host	6 (Total bandwidth: 36 M)
Video Compression		by the sub stream)				Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Smart Codec		Smart H.265+; Smart H.264+				Browser	IE; Chrome; Firefox
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				Management Software	DSS; DMSS
						Mobile Client	iOS; Android
Stream Capability		stream; for multiple streams, the values will be subjected to the total encoding capacity. 2 streams			Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification	

Certification

Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; III /CIII : III 63368-1 8, CAN/CSA C22 2 No. 62368-1-14
	UL/CUL: UL62368-1 & CAN/CSA C22.2 No. 62368-1-14

Power

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.6 W (12 VDC); 1.9 W (PoE); Max. (H.265 + intelligence + WDR + warm light): 3.8 W (12 VDC); 4.4 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 Material	Metal
Product Dimensions	165.0 mm \times 74.3 mm \times 70 mm (6.49" \times 2.92" \times 2.76") (L \times W \times H)
Net Weight	0.48 kg (1.06 lb)
Gross Weight	0.59 kg (1.30 lb)

Ordering Information				
Туре	Model	Description		
2MP camera	IPC-HFW1249S-S-IL	2MP Entry Smart Dual Light Fixed- focal Bullet Network Camera		
	PFA134	Junction Box		
	PFA130-E	IP66 Junction Box		
Accessories	PFA152-E	Pole Mount Bracket		
(Optional)	PFM321D	12 VDC 1A Power Adapter		
	PFM900-E	Integrated Mount Tester		
	TF-P100	MicroSD Memory Card		

Accessories

Optional:







PFA130-E IP66 Junction Box



PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





