# 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.

#### **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 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..











#### **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 Senso	r	1/2.8" CMOS				Bit Rate Control	CBR/VBR
Max. Resolut	tion	1920 (H) × 10	80 (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 Sys	stem	Progressive				HLC	Yes
Electronic Sh	nutter Speed	Auto/Manual	1/3 s-1/100,0	00 s		WDR	120 dB
Min. Illumina	ation		6 (Color, 30 IF 1.6 (B/W, 30 IF ator on)	•		White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
S/N Ratio		>56 dB				Gain Control	Auto; Manual
Illumination	Distance		8.43 ft) (IR); up	o to 30 m (98.4	3 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/Rot	ation Range	Tilt: 0°–90° Rotation: 0°–3	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 n	nm			Built-in MIC	Yes
Max. Apertu	ire	F1.6				Audio Compression	G.711a; G.711Mu; PCM; G.726
Field of View	/		07°; V: 56°; D: 1 3°; V: 44°; D: 10			Alarm	
Iris Control Close Focus	Distance	2.8 mm: 0.7 n 3.6 mm: 1.3 n				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 Searcl	h	intelligent sea		IVR to perform raction and me			ICMP; IGMP
Video		videos				Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
	rossion	H.264H; H.26	5; H.264; H.26	4B; MJPEG (On	ly supported	User/Host	6 (Total bandwidth: 36 M)
Video Comp		by the sub str	eam)			Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Smart Codeo			; Smart H.264-			Browser	IE; Chrome; Firefox
		Sub stream: 7		(1–25/30 fps) -25 fps)/704 ×		Management Software	DSS; DMSS
Video Frame	Rate			nax. frame rate	s of each II be subjected	Mobile Client	iOS; Android
Stream Capa	ability		uttiple streams		ii be subjected	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;
	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 × 74.3 mm × 70 mm (6.49" × 2.92" × 2.76") (L × W × 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])





