

DH-IPC-HFW1431S1-S4

4MP Entry IR Fixed-focal Eyeball Netwok Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440) @25/30 fps, and supports max. 4MP (2688 × 1520) @20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Image flip, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access, voltage detection
- 12V DC/PoE power support
- IP67, protection



System Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry Series 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+ & 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.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection (General) technology triggers alarm or records.

Wide Dynamic Range (WDR)

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Smart IR

Dahua Smart IR technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts IR LEDs intensity automatically to display the details of the moving target.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Entry Series |DH-IPC-HFW1431S1-S4

Technical Specification

Camera					
Image Sensor		1/3"4Megapixel progressive CMOS			
Effective Pixels		2688 (H) ×1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			
Min. Illumination		0.03 Lux @ F2.0			
IR Distance		30 m (98.4 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		1			
Pan/Tilt/Rotation Range		Horizontal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F2.0			
Field of View		2.8 mm: Horizontal: 93° Vertical: 53° Diagonal: 111° 3.6 mm: Horizontal: 81° Vertical: 44° Diagonal: 95°			
Iris Type		Fixed aperture			
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	50.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	15.1 m (18.4 ft)
	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
Video					

Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	Yes
Video Frame Rate	Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)
Stream Capability	2 streams
Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 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	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control	Manual/Auto	
Noise Reduction	3D DNR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest(RoI)	Yes (4 areas)	
Smart IR	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)	
Mirror	Yes	
Privacy Masking	4 areas	
Network		
Network	RJ-45 (10/100 Base-T)	
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP	
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P	
User/Host	20	
Edge Storage	Dahua Cloud; FTP; NAS	
Browser	IE Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Phone	IOS; Android	
Certification		
Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	
Power		
Power Supply	12V DC/POE (802.3af)	
Power Consumption	< 5.0W	
Environment		
Operating Conditions	-40°C to +55°C (-40°F to +131°F) /less than≤95%	
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)	
Ingress Protection	IP67	

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Structure	
Casing	Metal +Plastic
Dimensions	162.6 mm × Φ70 mm (6.4" × Φ2.8")
Net Weight	0.22 kg (0.5 lb)
Gross Weight	0.35 kg (0.8 lb)

Description

Junction Box

Pole Mount

4MP Entry IR Fixed-focal Bullet

4MP Entry IR Fixed-focal Bullet

, Netwok Camera,PAL

Netwok Camera,NTSC

DC12V1A Power Adapter

Integrated Mount Tester

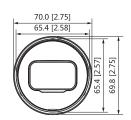
over Coax Extender

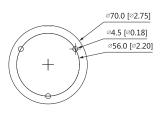
Single-port Long Reach Ethernet

Junction Mount Pole Mount PFA134 PFA134 PFA134+PFA152-E

Dimensions (mm[inch])

162.6 [6.40]





Accessories

Optional:

Accessories

(optional)



Ordering Information

Туре

4MP Camera Part Number

PFA134

PFA152-E

PFM321D

PFM900-E

LR1002-1ET/1EC

DH-IPC-HFW1431S1P-S4

DH-IPC-HFW1431S1N-S4

PFA134 Junction Box



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

PFM900-E Integrated Mount Tester

PFA152-E

Pole Mount



PFM321D DC12V1A Power Adapter

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