

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.



Technical Specification							Video Bit Rate	H.264: 32 Kbps-6144 Kbps
Camera								H.265: 12 Kbps-6144 Kbps Auto(ICR)/Color/B/W
Image Sensor		1/3"4Megapixel progressive CMOS					Day/Night	
Effective Pixels		2688 (H) ×1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		128 MB					WDR	120 dB
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					Gain Control	Manual/Auto
Min. Illumination		0.03 Lux @ F2.0					Noise Reduction	3D DNR
IR Distance		30 m (98.4 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
							Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number	IR On/Off Control		Auto/Manual 1				Smart IR	Yes
Pan/Tilt/Rotation Range		Horizontal: 0°–360° Vertical: 0°–90°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)
Long	Lawa		360°				Mirror	Yes
Lens		Fixed					Privacy Masking	4 areas
Lens Type Mount Type							Network	
Mount Type		M12 2.8 mm					Network	RJ-45 (10/100 Base-T)
Focal Length		3.6 mm					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
Max. Aperture		F2.0 2.8 mm:						
			3°				Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P
Field of View		Diagonal: 111° 3.6 mm:					User/Host	20
		Horizontal: 81° Vertical: 44° Diagonal: 95°					Edge Storage	Dahua Cloud; FTP; NAS
Iris Type		Fixed aperture					Browser	IE Chrome
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)						Firefox
	Lens	Detect	Observe	Recognize	Identify		Management Software	Smart PSS; DSS; DMSS
DORI Distance	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)		Mobile Phone	IOS; Android
	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)		Certification	
Video								CE-LVD: EN60950-1
Video Compression		H.265; H.264; H.264B; MJPEG					Certifications	CE-EVD. ENG0930-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Smart Codec		Yes						FCC: 47 CFR FCC Part 15, Subpart B
			Main Stream: 2688 × 1520 (1 fps–20 fps)				Power	
Video Frame Rate		2560 × 1340 (1 fps=25/30 fps) Sub Stream:					Power Supply	12V DC/POE (802.3af)
		704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)					Power Consumption	< 5.0W
Stream Capability		2 streams					Environment	
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); 10 (704 × 576/704 ×					Operating Conditions	-40°C to +55°C (-40°F to +131°F) /less than≤95%
							-	-40°C to +60°C (-40°F to +131°F) /less trialises /
Dit Data Countries		480); VGA (640 × 480); CIF (352 × 288/352 ×240)					Strorage Conditions	
Bit Rate Control		CBR; VBR					Ingress Protection	IP67

Entry Series | DH-IPC-HFW1431S1-S4

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)

Junction Mount	Pole Mount	
PFA134	PFA134+PFA152-E	
	0	

Ordering Information							
Туре	Part Number	Description					
4MP	DH-IPC-HFW1431S1P-S4	4MP Entry IR Fixed-focal Bullet Netwok Camera,PAL					
Camera	DH-IPC-HFW1431S1N-S4	4MP Entry IR Fixed-focal Bullet Netwok Camera,NTSC					
	PFA134	Junction Box					
	PFA152-E	Pole Mount					
Accessories (optional)	PFM321D	DC12V1A Power Adapter					
(Optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender					
	PFM900-E	Integrated Mount Tester					

Accessories

Optional:



PFA134 Junction Box



Pole Mount



PFM321D DC12V1A Power Adapter



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



PFM900-E Integrated Mount Tester

Dimensions (mm[inch])







