

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							Day/Night	H.265: 12 Kbps-6144 Kbps Auto(ICR)/Color/B/W
Image Sensor		1/3"4Megapixel progressive CMOS					BLC	Yes
Effective Pixels		2688 (H) ×1520 (V)					HLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB					WDR	Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive					White Balance	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)
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number			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.)
Lens		Rotation: 0°–360°					Mirror	Yes
Lens Type		Fixed					Privacy Masking	4 areas
Mount Type		M12					Network	
Focal Length		2.8 mm 3.6 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture		F2.0						HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP; NTP;
		2.8 mm:					Protocol	RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
		Horizontal: 93 Vertical: 53°					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec; P2P
Field of View		Diagonal: 111° 3.6 mm: Horizontal: 81°					User/Host	20
		Vertical: 44° Diagonal: 95°					Edge Storage	Dahua Cloud; FTP; NAS
Iris Type		Fixed aperture					Browser	IE
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)						Chrome 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		(202.3 10)	(103.0 10)	(32.310)	(20.210)			
Video Compression		H.265; H.264; H.264B; MJPEG					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Smart Codec		Yes						
		Main Stream:						
Video Frame Rate		2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps)					Power	
		Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)					Power Supply	12V DC/POE (802.3af)
Stream Capability		2 streams					Power Consumption < 5.0W	
,		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);					Environment	1000
Resolution		2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×					Operating Conditions	-40°C to +55°C (-40°F to +131°F) /less than≤95%
		480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
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



PFA152-E 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])







