

DH-IPC-HFW1431S1-S4

4MP Entry IR Fixed-focal Bullet 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: 40 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Image Rotation, WDR, 3D NR, 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 supply
- IP67, protection











Series 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+ & 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.

Motion Detection

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

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 Illumination

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

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 comprising 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 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							Bit Rate Control	CBR; VBR
Camera						l.	Video Bit Rate	H.264: 32 kbps-6144 kbps
Image Sensor		1/3"4Megapixel progressive CMOS					Day/Night	H.265: 12 kbps-6144 kbps Auto(ICR)/Color/B/W
Max. Resolution		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
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s						custom
S/N Ratio		> 56 dB					Gain Control	Manual/Auto
Min. Illumination		0.03 Lux @ F2.0					Noise Reduction	3D NR
Illumination Dist	tance	40 m					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/C	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Number		1 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Long		Rotation: 0°–360°					Mirror	Yes
Lens Type		Fixed-focal					Privacy Masking	4 areas
							Alarm	
Mount Type Focal Length		M12 2.8 mm 3.6 mm					Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception, HDD error, HDD full
Max. Aperture		F2.0					Network	
		2.8 mm: Horizontal: 93°					Network	RJ-45 (10/100 Base-T), Heartbeat Protocol
Field of View		Vertical: 53° Diagonal: 111°					SDK and API	Yes
		3.6 mm: Horizontal: 81° Vertical: 44° Diagonal: 95°					Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
Iris Type		Fixed						execution; trusted upgrade
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)					Protocol	IPv4; IPv6; HTTP; TCP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; SNMP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour; UDP
	Lens 2.8mm	Detect 50.0 m	Observe 22.4 m	Recognize 11.2 m	Identify 15.1 m		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
DORI Distance	2.011111	(183.7 ft) 80.0 m	(73.5 ft) 32.0 m	(36.7 ft) 16.0 m	(18.4 ft) 8.0 m		User/Host	20
	3.6mm	(262.5 ft)	(105.0 ft)	(52.5 ft)	(26.2 ft)		Storage	FTP; SFTP; NAS
Video						General	Reset Button	
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by sub stream)						Password Protection
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS; DSS; DMSS
		Main Stream: 2688 × 1520 (1 fps–20 fps)					Mobile Phone	IOS; Android
Video Frame Rate		2560 × 1440 (1 fps–25/30 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)					Certification	CE-LVD: EN62368-1
Stream Capability		2 streams					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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)					Power	rest in entree are 15, subpare b
							Power Supply	12V DC/POE (802.3af)

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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)				
Protection	IP67				

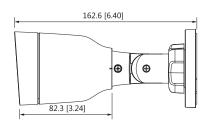
Structure

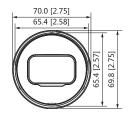
Casing	Metal +Plastic
Dimensions	162.6 mm × Φ70 mm (6.4" × Φ2.8")
Net Weight	0.22 kg (0.5 lb)
Gross Weight	0.35 kg (0.8 lb)

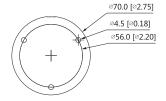
Ordering Information						
Туре	Part Number	Description				
4MP	DH-IPC-HFW1431S1P-S4	4MP Entry IR Fixed-focal Bullet Netwok Camera,PAL				
Camera	DH-IPC-HFW1431S1N-S4	4MP Entry IR Fixed-focal Bullet Netwok Camera,NTSC				
	PFA134	Junction Box				
	PFA152-E	Pole Mount				
Accessories (optional)	PFM321D	12V DC 1A Power Adapter				
(Optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender				
	PFM900-E	Integrated Mount Tester				

Pole Mount(Vertical) Ceiling Mount Junction Mount

Dimensions (mm[inch])







Accessories

Optional:



PFA134 Junction Box



PFA152-E Pole Mount



12V DC 1A Power Adapter



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

