

DH-IPC-HFW1431S1P-A-0280B

4 MP Entry IR 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 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.

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.

Motion Detection

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

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.

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs 4 MP (2560 × 1440) @25/30 fps, and supports max. 4 MP (2688 × 1520) @20 fps
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 40 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.
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, audio detection and illegal access.
- · Built-in MIC.
- 12 VDC/PoE power supply.
- IP67, IK10 protection













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 ±30% (for some power supplies) 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				Video Bit Rate	H.264: 32 kbps–6144 kbps			
Image Sensor		1/2.7" CMOS						H.265: 12 kbps-6144 kbps
Max. Resolution		2688 (H) × 1520 (V)					Day/Night	Auto (ICR)/Color/B/W
ROM		16 MB					BLC	Yes
RAM		128 MB					HLC	Yes 120 dp
Scanning System		Progressive					WDR	120 dB Auto; natural; street lamp; outdoor; manual; regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					White Balance	custom
		0.01 lux@F1.6 (Color, 30 IRE)					Gain Control	Auto; manual
Min. Illumination		0.003 lux@F1.6 (B/W, 30 IRE), 0 lux (Illuminator on)					Noise Reduction	3D NR
S/N Ratio		1(IR LED)					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Distance		40 m (98.43 ft) (IR)					Region of Interest (RoI)	Yes (4 areas)
Illuminator On/0	Off Control	Auto; manual					Smart Illumination	Yes
Illuminator Number		1(IR LED)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower.)
Pan/Tilt/Rotatio	n Range	Pan: 0°–360° Tilt: 0°–90°					Mirror	Yes
Lens		Rotation: 0°–360°					Privacy Masking	4 areas
		Fixed-focal					Audio	
Lens Type							Built-in MIC	Yes
Lens Mount		M12					Audio Compression	G.711A; G.711Mu; G.726
Focal Length		2.8 mm; 3.6 mm 2.8 mm: F1.6					Alarm	
Max. Aperture Field of View		3.6 mm: F1.6 2.8 mm: Horizontal: 104°; Vertical: 58°; Diagonal: 124°					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception
Iris Control		3.6 mm: Horizontal: 88°; Vertical: 48°; Diagonal: 103° Fixed					Network	
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft)					Network Port	RJ-45 (10/100 Base-T)
Close Focus Disc		3.6 mm: 1.2 m (3.94 ft)				SDK and API	Yes	
	Lens	Detect	Observe	Recognize	Identify		Cyber Security	Video encryption; configuration encryption; Digest; WSSE;
DORI Distance	2.8 mm	56.0 m (183.73 ft) 76.0 m	22.4 m (73.49 ft) 30.4 m	11.2 m (36.75 ft) 15.2 m	5.6 m (18.37 ft) 7.6 m			account lockout; security logs; generation and importing of X.509 certification; trusted boot; trusted execution; trusted upgrade
Video	3.6 mm	(249.34 ft)	(99.74 ft)	(49.87 ft)	(24.93 ft)		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
		H.265; H.264; H.264H; H.264B; MJPEG (Only supported					Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec
Video Compression		by the sub stream)					User/Host	6 (Total bandwidth: 36 M)
Smart Codec	Smart Codec		Smart H.265+; Smart H.264+				Storage	FTP
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) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Browser	IE Chrome Firefox
							Management Software	Smart PSS; DSS; DMSS
							Mobile Client	iOS; Android
Stream Capability		2 streams					Certification	
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)					Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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Entry Series | DH-IPC-HFW1431S1P-A-0280B

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.9 W (12 VDC); 2.9 W (PoE) Max. (ICR + H.265 + IR intensity): 3.8 W (12 VDC); 5 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, IK10		

Structure

Casing	Metal + plastic		
Product Dimensions	162.6 mm \times 70 mm \times 70 mm (6.40" \times 2.76"× 2.76") (L \times W \times H)		
Net Weight	0.22 kg (0.5 lb)		
Gross Weight	0.34 kg (0.7 lb)		

Ordering Information					
Туре	Model	Description			
IP CAMERA	DH-IPC-HFW 1431S1P-A-0280B	4 MP Entry IR Fixed-focal Bullet Network Camera			
	PFA134	Junction Box			
Accessories	PFA152-E	Pole Mount Bracket			
(optional)	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			

Accessories

Optional:







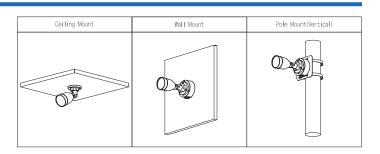
PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

