

DH-IPC-HFW1431M-A-I2-B-S4

4MP Entry IR Fixed-focal Eyeball 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.

Motion Detection

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

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.

Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

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.

- \cdot 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- \cdot Outputs max. 4 MP (2688 × 1520) @20 fps and supports 4 MP (2560 × 1440) @25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- · Built-in IR LED, and the max. illumination distance is 60 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, appli cable to various monitoring scenes.
- · Abnormality detection: motion detection, video tampering, audio detection, network disconnection, IP conflict, and illegal access.
- · Built-in MIC.
- · 12 VDC/PoE power supply.
- · IP67 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 works normal 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							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×	
Camera							Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 ×
Image Sensor		1/2.7" CMOS						(704 × 576) 704 × 480); VGA (640 × 480); CIF (352 × 288/352 ×240)
Max. Resolution		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR
ROM		16 MB					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
RAM		128 MB					Day/Night	Auto (ICR)/Color/B/W
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					HLC	Yes
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE)					WDR	120 dB
S/N Ratio		0 lux (Illuminator on) > 56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination Di			3.6 mm: 30 m (98.43 ft) (IR)				Gain Control	Auto; Manual
Illumination Di	Stalice	6 mm: 50 m (164.04 ft) (IR) 8 mm: 60 m (196.85 ft) (IR)					Noise Reduction	3D NR
Illuminator On/Off Control		Auto; Manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator Nur	Illuminator Number		2 (IR LED)				Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Mirror	Yes
Lens Mount		M12					Privacy Masking	4 areas
Focal Length		3.6 mm; 6 mm; 8 mm					Audio	
Max. Aperture		3.6 mm: F2.0 6 mm: F2.0					Built-in MIC	Yes
			8 mm: F2.0				Audio Compression	G.711a; G.711Mu; G.726; PCM
Field of View		3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100° 6 mm: Horizontal: 51°; Vertical: 29°; Diagonal: 59°					Alarm	
Iris Control		8 mm: Horizontal: 39°; Vertical: 21°; Diagonal: 45° Fixed					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception
		3.6 mm: 1.2 m (3.94 ft)					Network	
Close Focus Distance		6 mm: 2.6 m (8.53 ft) 8 mm: 4.3 m (14.11 ft)					Network Port	RJ-45 (10/100 Base-T)
	Lens	Detect	Observe	Recognize	Identify		SDK and API	Yes
DORI	3.6 mm	70.0 m (249.34 ft)	30.4 m (99.74 ft)	15.2 m (49.87 ft)	7.6 m (41.99 ft)		Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; trusted boot;
Distance	6 mm	116.0 m (380.58 ft)	46.4 m (152.23 ft)	23.2 m (76.12 ft)	11.6 m (38.06 ft)			trusted execution; trusted upgrade
	8mm	160.0 m (524.93 ft)	64.0 m (209.97 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)		Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Video							Interoperability	ONVIF (Profile S/Profile T); CGI; Milestone; P2P
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by					Storage	FTP
Smart Codec	·		the sub stream) Smart H.265+; Smart H.264+				Browser	IE Chrome Firefox
Video Frame Rate		Main Stream: 2688 × 1520 (1–20 fps)					Management Software	Smart PSS; DSS; DMSS
		2560 × 1440	2560 × 1440 (1–25/30 fps) 2560 × 1440 (1–25/30 fps) Sub Stream: 704 × 576 (1–20/25 fps) 704 × 480 (1–20/30 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.				Mobile Client	IOS; Android
		704 × 576 (1					Certification	
		*The values stream; for r					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Stream Capability		2 streams					23. 6566.0113	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Power

Power Supply	12 V DC/PoE
Power Consumption	Basic: 2.1 W (12 VDC); 2.9 W (PoE) Max. (ICR + H.265 + IR intensity): 5.8 W (12 VDC); 6.6 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

Structure

Casing	Metal + plastic	
Product Dimensions	162.6 mm × 70 mm× 70 mm (6.38" × 2.76"× 2.76") (L × W × H)	
Net Weight	0.63 kg (1.39 lb)	
Gross Weight	1.24 kg (2.73 lb)	

Ordering Information					
Туре	Part Number	Description			
IP Camera	DH-IPC- HFW1431M-A-I2- B-S4	4MP Entry IR Fixed-focal Eyeball Network Camera			
	PFB120WS	Wall Mount			
	PFB110W	Ceiling Mount			
Accessories	PFB121W	Wall Mount			
	PFB121W+PFA152-E	Pole Mount (Vertical)			
	PFA162+PFA150	Pole Mount (Horizontal)			

Accessories

Included:



PFB120WS Wall Mount

Optional:







PFB110W Ceiling Mount

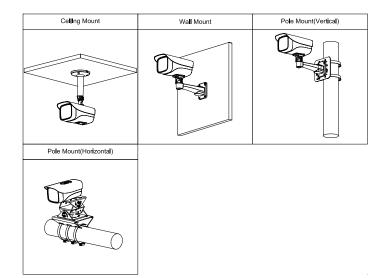
PFB121W Wall Mount

PFB121W+PFA152-E Pole Mount (Vertical)





PFA162+PFA150 Pole Mount (Horizontal)



Dimensions (mm[inch])

