

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. • 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.

- 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 80 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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification

Camer	· `	

Stream Capability

Camera					
Image Sensor		1/2.7" CMO	1/2.7" CMOS		
Max. Resolution		2688 (H) × 1	2688 (H) × 1520 (V)		
ROM		16 MB			
RAM		128 MB	128 MB		
Scanning Syster	m	Progressive	Progressive		
Electronic Shutter Speed		Auto/Manua	Auto/Manual 1/3 s-1/100,000 s		
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		3.6 mm: 30 m (98.43 ft) (IR) 6 mm: 50 m (164.04 ft) (IR) 8 mm: 80 m (262.46 ft) (IR)			
Illuminator On/Off Control		Auto; Manu	Auto; Manual		
Illuminator Nur	nber	2 (IR LED)			
Lens					
Lens Type		Fixed-focal	Fixed-focal		
Lens Mount		M12	M12		
Focal Length		3.6 mm; 6 m	3.6 mm; 6 mm; 8 mm		
Max. Aperture		3.6 mm: F2.0 6 mm: F2.0 8 mm: F2.0			
Field of View		3.6 mm: Horizontal: 84°; Vertical: 45°; Diagonal: 100° 6 mm: Horizontal: 51°; Vertical: 29°; Diagonal: 59° 8 mm: Horizontal: 39°; Vertical: 21°; Diagonal: 45°			
Iris Control		Fixed	Fixed		
Close Focus Distance		6 mm: 2.6 m	3.6 mm: 1.2 m (3.94 ft) 6 mm: 2.6 m (8.53 ft) 8 mm: 4.3 m (14.11 ft)		
	Lens	Detect	Observe	Recognize	Identify
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)
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)
	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)
Video					
Video Compression H.265; H.264; H.264B; MJPEG (Only supp the sub stream)		ported by			
Smart Codec		Smart H.265	Smart H.265+; Smart H.264+		
Video Frame Rate		Main Stream: 2688 × 1520 (1–20 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.			

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2 streams

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)	
Bit Rate Control	CBR/VBR	
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps	
Day/Night	Auto (ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom	
Gain Control	Auto; Manual	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest (RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Mirror	Yes	
Privacy Masking	4 areas	
Audio		
Built-in MIC	Yes	
Audio Compression	G.711a; G.711Mu; G.726; PCM	
Alarm		
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception	
Network		
Network Port	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; trusted boot; trusted execution; trusted upgrade	
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast	
Interoperability	ONVIF (Profile S/Profile T); CGI; Milestone; P2P	
Storage	FTP	
Browser	IE Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
Mobile Client	IOS; Android	
Certification		
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B	

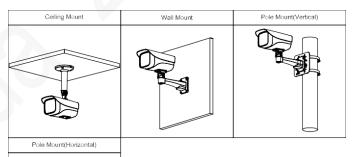
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Power	
Power Supply	12 V DC/PoE
Power Consumption	Basic: 2.1 W (12 VDC); 2.9 W (PoE) Max. (ICR + H.265 + IR intensity): 5.8 W (12 VDC); 6.6 W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Operating Humidity	≤ 95%
Storage 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)

AccessoriesIncluded:Image: PB120WS
Wall MountPB120WS
Wall MountOptional:Image: PFB110W
Ceiling MountPFB110W
Ceiling MountPFB121W
Wall MountPFB121W
Wall MountPFB121W
Wall MountPFB121W
Wall MountPFB121W
Del Mount (Vertical)Image: PFB162+PFA150PFB162+PFA150

Ordering Information

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

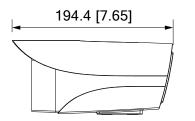


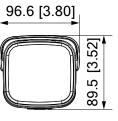


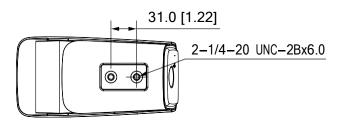
Pole Mount (Horizontal)

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Dimensions (mm[inch])







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