

DH-IPC-HFW1431S-S4

4 MP Entry IR Fixed-Focal Bullet Netwok 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.

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.

- 4 MP, 1/3" CMOS image sensor, low illuminance, high image definition
- 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
- \cdot Built-in efficient IR illuminator, and the max. illumination distance is 30 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, and illegal access
- 12 VDC/PoE power supply
- IP67 protection



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.

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.

IPC-1431 Series | DH-IPC-HFW1431S-S4

Technical Specification

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Camera					
Image Sensor		1/3" CMOS			
Max. Resolution		2688 (H) × 1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.03 lux@F2.0 (Color, 30 IRE) 0.003 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)			
S/N Ratio		>56 dB			
Illumination Distance		30 m (98.4 ft) (IR)			
Illuminator On/Off Control		Auto; manual			
Illuminator Number		18 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 mm			
Max. Aperture		2.8 mm: F2.0 3.6 mm: F2.0			
Field of View		2.8 mm: Horizontal: 93°; Vertical: 53°; Diagonal: 111° 3.6 mm: Horizontal: 81°; Vertical: 44°; Diagonal: 95°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	50.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	15.1 m (18.4 ft)
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
Video					
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)			
Smart Codec		Smart H.265+; Smart H.264+			
		Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream:			

Sub Stream:

2 streams

704 × 576 (1 fps-20/25 fps) 704 × 480 (1 fps-20/30 fps)

to the total encoding capacity.

*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected

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)

Video Frame Rate

Stream Capability

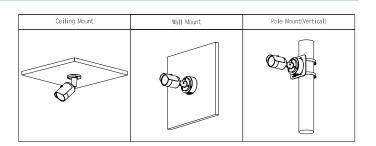
Resolution

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	Manual; auto			
Noise Reduction	3D NR			
Motion Detection	OFF/ON (4 areas, rectangular)			
Region of Interest (RoI)	Yes (4 areas)			
Smart Illumination	Yes			
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower.)			
Mirror	Yes			
Privacy Masking	4 areas			
Alarm				
Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception			
Network				
Network Port	RJ-45 (10/100 Base-T)			
SDK and API	Yes			
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 execution; trusted upgrade			
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour			
Interoperability	ONVIF (Profile S/Profile T); CGI; Milestone; Genetec; P2P			
User/Host	20			
Storage	FTP; SFTP; NAS			
Browser	IE; Chrome; Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Client	iOS; Android			
Certification				
Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
Power				
Power Supply	12 VDC/PoE			
Power Consumption	Basic: 1.5 W (12 VDC); 2.3 W (PoE) Max. (ICR +H.265+ IR intensity): 4.3 W (12 VDC); 5.5 W (PoE)			

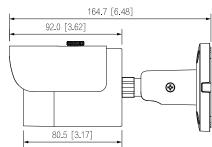
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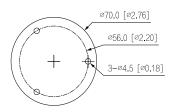
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95%		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Protection	IP67		
Structure			
Casing	Metal + plastic		
Product Dimensions	164.6 mm × Φ71.8 mm (6.5" × Φ2.8")		
Net Weight	0.40 kg (0.9 lb)		
Gross Weight	0.51 kg (1.1 lb)		



Dimensions (mm[inch])







Ordering Information

Туре	Model	Description
4MP Camera	DH-IPC- HFW1431S-S4	4MP Entry IR Fixed-Focal Bullet Netwok Camera
	PFA134	Junction Box
Accessories	PFA152-E	Pole Mount Bracket
(Optional)	PFM321D	12 VDC 1A Power Adapter
	PFM900-E	Integrated Mount Tester

Accessories

Optional:



PFA134 Junction Box

PFA152-E Pole Mount Bracket



PFM900-E Integrated Mount Tester



PFM321D 12 VDC 1A Power Adapter

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