

DH-IPC-HFW1431M-A

4MP General 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.

Human Detection

Dahua intelligent algorithms extract moving human targets from videos and filters out alarms that are triggered by non-human targets to increase the accuracy and effectiveness of alarms.

*The parameters and datasheets below can only be applied to 1431-S6 series.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 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.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict, illegal access.
- · Built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · Supports human detection.













Cyber Security

Dahua network cameras employ a series of security technologies, including security authentcaton and authorizaton, access control protocols, trusted protecton, 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 work normally after soaking in $1\,\mathrm{m}$ 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.

Technical Specification							Main stream: 2560 × 1440@(1–25/30 fps)
Camera	эрсетсин	on .				Video Frame Rate	sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$
Image Sensor		1/2.9" CMOS					*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
Max. Resolution		2560 (H) × 1440 (V)				Stream Capability	2 streams
ROM		16 MB				Stream Capability	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×
RAM		64 MB				Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Scanning Sys	tem	Progressive				Bit Rate Control	× 240)
Electronic Shutter Speed		Auto/Manual	1/3 s-1/100,0	00 s			CBR/VBR H.264: 32 kbps-4096 kbps;
·		0.03 lux@F2.0 (Color, 30 IRE);				Video Bit Rate	H.265: 12 kbps-4096 kbps
Min. Illumina	ation	0.003 lux@F2.0 (B/W, 30 IRE); 0 lux (Illuminator on)				Day/Night	Auto(ICR)/Color/B/W
S/N Ratio		>56 dB				BLC	Yes
Illumination	Distance	Up to 80 m (2	262.47 ft) (IR)			HLC	Yes
Illuminator C	n/Off Control	Auto;Manual				WDR	120 dB
Illuminator N	lumber	4 (IR LED)				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				Gain Control	Auto/Manual
						Noise Reduction	3D NR
Lens						Motion Detection	OFF/ON (4 areas, rectangular)
Lens Type		Fixed-focal				Region of Interest (RoI)	Yes (4 areas)
Lens Mount		M12				Smart Illumination	Yes
Focal Length		2.8 mm;3.6 mm				Image Rotation	0°/180°
Max. Aperture		F2.0				Mirror	Yes
Field of View	,	3.6 mm: H: 78°; V: 43°; D: 92°				Privacy Masking	4 areas
Iris Control		Fixed				Audio	
Close Focus I	Dictance					Built-in MIC	Yes, built-in Mic
Close Focus I		3.6 mm: 1.3 m (4.27 ft)			Audio Compression	G.711a; G.711Mu; PCM; G.726	
	Lens	Detect	Observe	Recognize	Identify	Alarm	
DORI Distance		76.0 m 30.4 m 15.2 m 7.6 m (249.34 ft) (99.74 ft) (49.87 ft) (24.93 ft) tt, Observe, Recognize, Identify) is a standard system for defining the ability of a person viewing the video to			(24.93 ft) system	Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
	distinguish pe	ersons or object not reflect intel	s within a cove	red area. The i	numbers in	Network	
	function dista project design	nces, refer to in n tool.	nstallation and	commissioning	g manual/	Network Port	RJ-45 (10/100 Base-T)
Intelligence					SDK and API	Yes	
Human Detection		Support the classification and accurate detection of human				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				Interoperability	ONVIF (Profile S & Profile T); CGI
Video				User/Host	6 (Total bandwidth: 24 M)		
		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)			lly supported	Storage	FTP
Video Compression						Browser	IE; Chrome; Firefox
Smart Codec		Smart H.265+	Smart H.265+; Smart H.264+			Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care

Mobile Client

iOS;Android

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Cyber Security	Configuration encryption;Trusted execution;Digest;Security logs;HTTPS;Trusted upgrade;WSSE;Trusted boot;Account lockout;Generation and importing of X.509 certification;Video encryption
Certification	

	CE-LVD: EN62368-1;
Certifications	CE-EMC: Electromagnetic Compatibility Directive
	2014/30/EU

Power

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.6W (12 VDC), 2.1W (PoE); Max. (H.265 + intelligence on + WDR+ IR intensity): 8.9W(12 VDC), 10.6W (PoE)	

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95%(RH), non-condensing	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Storage Humidity	≤95%(RH), non-condensing	
Protection	IP67	

Structure

Casing Material	Metal + Plastic		
Product Dimensions	194.4 mm \times 96.6 mm \times 89.5 mm (7.65" \times 3.80" \times 3.52") (L \times W \times H)		
Net Weight	0.63 kg (1.39 lb)		
Gross Weight	1.06 kg (2.34 lb)		

Ordering Information				
Туре	Model	Description		
4MP Camera	DH-IPC-HFW1431M-A	4MP General Bullet Network Camera		
	PFB120WS	Wall Mount Bracket		
	PFB121W	Wall Mount Bracket		
	PFB110W	Ceiling Mount Bracket		
	PFA162	Universal joint		
Accessories (Optional)	PFA150	Pole Mount Bracket		
	PFA121	Junction Box		
	PFA152-E	Pole Mount Bracket		
	PFM900-E	Integrated Mount Tester		
	PFM321D	12VDC 1A Power Adapter		

Accessories

Included:



PFB120WS Wall Mount Bracket

Optional:







PFB110W Ceiling Mount Bracket



PFA162 Universal joint



PFA150 Pole Mount Bracket



PFA121 Junction Box



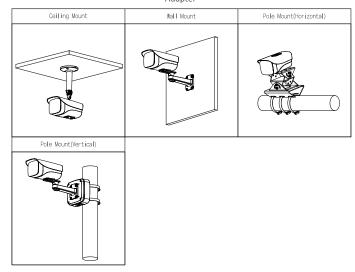
PFA152-E Pole Mount Bracket



PFM900-E Integrated Mount Tester



PFM321D 12 VDC 1A Power Adapter



Dimensions (mm[inch])

