

DH-IPC-HFW1431TC1-A

4MP 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.

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 30 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.













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

Technical :	Specificatio	n					Smart Codec	Smart H.265+; Smart H.264+
Camera					Main stream: 2560 × 1440@(1–25/30 fps)			
Image Sensor		1/2.9" CMOS					Video Frame Rate	sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 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.
Max. Resolution		2560 (H) × 1440 (V)						
ROM		16 MB					Streaming Capability	2 streams
RAM		64 MB				,	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×	
Scanning System		Progressive					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
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)					Bit Rate Control	CBR/VBR H.264: 32 kbps-4096 kbps
S/N Ratio		> 56 dB					Video Bit Rate	H.265: 12 kbps-4096 kbps
Illumination D	Distance	Up to 30 m (98.43 ft)(IR)					Day/Night	Auto(ICR)/Color/B/W
Illuminator Or	n/Off Control	Auto;Manual					BLC	Yes
						HLC	Yes	
Illuminator Number		1 (IR LED) Pan: 0°-360°;				WDR	120 dB	
Angle Adjustment		Tilt: 0°–90°; Rotation: 0°–360°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens							Gain Control	Auto/Manual
Lens Type		Fixed-focal					Noise Reduction	3D NR
Lens Mount		M12					Motion Detection	OFF/ON (4 areas, rectangular)
Focal Length		2.8 mm; 3.6 mm					Region of Interest (RoI)	Yes (4 areas)
Max. Aperture	e	F2.0					Smart Illumination	Yes
Field of View		2.8 mm: H: 92°; V: 50°; D: 107° 3.6 mm: H: 78°; V: 43°; D: 92°					Image Rotation	0°/180°
Iris Control		Fixed					Mirror	Yes
Close Focus D)istance	2.8 mm: 1.0 m (3.28 ft)				Privacy Masking	4 areas	
close rocus b	ristance	3.6 mm: 1.3 m (4.27 ft)				Audio		
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)		Audio Compression	G.711a; G.711Mu; PCM; G.726
		76.0 m	30.4 m	15.2 m	7.6 m		Alarm	
DORI Distance	,	(249.34 ft) (99.74 ft) (49.87 ft) ect, Observe, Recognize, Identify) is a standa			•		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
	video to disti	 4) for defining the ability of a person viewing the stinguish persons or objects within a covered area. 					Network	
distances. For		in this table do not reflect intelligent function rintelligent function distances, refer to installation ioning manual/project design tool.					Network Port	RJ-45 (10/100 Base-T)
							SDK and API	Yes
Intelligence 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				
		Work together with Smart NVR to perform refine					Interoperability	ONVIF (Profile S & Profile T); CGI
Smart Search		intelligent search, event extraction and merging to event videos				User/Host	6 (Total bandwidth: 24 M)	
Video						Storage	FTP	
Video Compre			H.265; H.264; H.264H; H.264B; MJPEG (Only supported				Browser	IE; Chrome; Firefox
Video Compression		by the sub stream)				Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care	

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Mobile Client	iOS;Android
Security	Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade
Certification	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

Power

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 1.5 W (12 VDC), 1.9 W (PoE); Max.: 3.5 W (12 VDC), 4.3 W (PoE) (H.265 + intelligence on + WDR+ IR intensity)

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	180.4 mm × 70 mm × 70 mm (7.10" × 2.76" × 2.76") (L × W × H)		
Net Weight	0.29 kg (0.63 lb)		
Gross Weight	0.40 kg (0.88 lb)		

Ordering Information

Туре	Model	Description
IP CAMERA	DH-IPC-HFW1431TC1-A	4MP Entry IR Fixed-focal Bullet Network Camera
	DH-PFA151	Corner Mount Bracket
	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
Accessories (Optional)	DH-PFA152-E	Pole Mount Bracket
Accessories (Optional)	DH-PFA134	Junction Box
	DH-PFM321-EN	DC12V1A power adapter
	DH-PFM320D-EN	DC12V2A power adapter
	PEM900-E	Integrated Mount Tester

Accessories

Optional:







DH-PFA130-E Water-proof Junction Box

DH-PFA134 Junction Box

DH-PFA151 Corner Mount Bracket







DH-PFA152-E Pole Mount Bracket

DH-PFM320D-EN DC12V2A power adapter

DH-PFM321-EN
DC12V1A power adapter



G3416GW G3/4" Water Joint



PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

mm [inch]

