

DH-IPC-HFW1431TL-A-IL

4MP Entry Smart Dual Light 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 Dual Light

Dahua Smart Dual Light technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the white light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the white light is off and the IR illuminator is on, which reduces light pollution efficiently.

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.

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.

- 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 warm light, the max. IR illumination distance is 30 m and warm light 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 and illegal access.
- · Built in Mic.
- · 12 VDC/PoE power supply,
- · IP67 protection.
- · Supports human detection.













WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

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 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 Specification						Stream Capability	2 streams	
Camera					4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 ×			
Image Sensor		1/2.9" CMOS					Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2560 (H) × 1440 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 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		0.006 lux@F1.6 (Color,30 IRE) 0.0006 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)					WDR	120 dB
S/N Ratio		>56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
		Up to 30 m (98.43 ft) (IR LED)					Gain Control	Auto;Manual
Illumination	Distance	Up to 30 m (98.43 ft) (Warm light)					Noise Reduction	3D NR
Illuminator C	On/Off Control	Auto;Manual					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator N	lumber	2 (IR LED); 2 (Warm light)				Region of Interest (RoI)	Yes (4 areas)
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90°					Smart Illumination	Yes
Lens		Rotation: 0°–360°					Image Rotation	0°/180°
Lens Type		Fixed-focal					Mirror	Yes
Lens Mount		M12					Privacy Masking	4 areas
Focal Length		2.8 mm;3.6 mm					Audio	
Max. Apertu	re	F1.6					Built-in MIC	Yes, built-in Mic
Field of View		2.8 mm: H: 94°; V: 52°; D: 111°					Audio Compression	G.711a; G.711Mu; PCM; G.726
	,	3.6 mm: H: 78°; V: 41°; D: 94°					Alarm	
Iris Control Close Focus	Distance	2.8 mm: 1.1 m (3.61 ft)					Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD
0.000 1.0000		3.6 mm: 1.7 r		Pocognizo	Identify			(human); security exception
D O D	Lens	Detect 64.0 m	Observe 25.6 m	Recognize 12.8 m	6.4 m		Network	
DORI Distance	2.8 mm	(209.97 ft)	(83.98 ft)	(41.99 ft)	(21.00 ft)		Network Port	RJ-45 (10/100 Base-T)
	3.6 mm	85.4 m (280.18 ft)	34.2 m (112.20 ft)	17.1 m (56.10 ft)	8.5 m (27.89 ft)		SDK and API	Yes
Intelligence		Cupport the electification and accurate detection of					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Human Dete	ction	Support the classification and accurate detection of human					Interoperability	ONVIF (Profile S; Profile T); CGI
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event					User/Host	6 (Total bandwidth: 24 M)
Video		videos					Storage	FTP
			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
Smart Codec		Smart H.265+; Smart H.264+					Mobile Client	iOS;Android
Video Frame Rate		Main stream: $2560 \times 1440@(1-25/30 \text{ fps})$ Sub stream: $704 \times 576@(1-25 \text{ fps})/704 \times 480@(1-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				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	

Entry Series | DH-IPC-HFW1431TL-A-IL

Certification

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

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 2 W (12 VDC); 2.9 W (PoE) Max. (H.265 + intelligence on+ WDR + illuminator intensity): 6.4 W (12 VDC); 7.7 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)		
Storage Humidity	≤95%		
Protection	IP67		

Structure

Casing Material	Metal+plastic
Product Dimensions	197.9 mm \times 80.2 mm \times 76.2 mm (7.79" \times 3.16" \times 3.00") (L \times W \times H)
Net Weight	0.31 kg (0.68 lb)
Gross Weight	0.45 kg (0.99 lb)

Ordering Information Туре Model Description 4MP Entry Smart Dual Light Fixed-4MP Camera DH-IPC-HFW1439TL1-A-IL focal Bullet Network Camera PFA134 Junction Box PFA152-E Pole Mount Bracket Accessories (Optional) PFM321D 12 VDC 1A Power Adapter PFM900-E Integrated Mount Tester

Accessories

Optional:



Junction Box





PFA152-E Pole Mount Bracket



PFM321D 12 VDC 1 A Power Adapter



PFM900-E Integrated Mount Tester

Ceiling Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])





