

DH-IPC-HFW1230C-A-IL

2MP 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.

- * The parameters and datasheets below can only be applied to 1230C-A series
- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- · Outputs max. 2 MP (1920 ×1080)@25/30 fps.
- · H.265 codec, high compression rate, ultra-low bit rate.
- Built-in multi-core light, the max. IR distance is 30 m and the max. warm light distance is 30 m.
- DWDR, 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 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				Smart Codec	Smart H.265+; Smart H.264+			
Camera						Video Frame Rate	Main stream: 1920 × 1080@(1–25/30 fps)	
Image Sensor		1/2.8" CMOS						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		1920 (H) × 1080 (V)						
ROM		16 MB						
RAM		64 MB					Stream Capability	2 streams
Scanning System		Progressive					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					(352 × 288/352 × 240)	
Min. Illumination		0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					Bit Rate Control Video Bit Rate	VBR;CBR H.264: 32 kbps–4096 kbps; H.265: 12 kbps–4096 kbps
S/N Ratio		> 56 dB					Day/Night	Auto(ICR)/Color/B/W
		Up to 30 m (98.43 ft) (IR)					BLC	Yes
Illumination Distance		Up to 30 m (98.43 ft) (Warm light)					HLC	Yes
Illuminator On/Off Control		Auto;Manual					WDR	DWDR
Illuminator Number		1 (Multi-core (IR + warm) light)					Auto; natural; street lamp; outdoor; manual; regional	
Angle Adjustment		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					White Balance Gain Control	custom
Lens		NotatiOII. U =300					Noise Reduction	Auto/Manual 3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm					Smart Illumination	Yes
Max. Apertur	re	F1.6					Smart Dual Light	Yes
Field of View		2.8 mm: H: 103°; V: 55°; D: 123° 3.6 mm: H: 87°; V: 44°; D: 105°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Iris Control		Fixed					Mirror	Yes
Close Focus D	Distance	2.8 mm: 0.8 m (2.62 ft)					Privacy Masking	4 areas
0.000 1 0000 0		3.6 mm: 1.3 n					Audio	
	Lens	Detect	Detect Observe 44.1 m 17.7 m (144.69 ft) (58.07 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)		Built-in MIC	Yes, built-in Mic
	2.8 mm						Audio Compression	G.711a; G.711Mu; PCM; G.726
	3.6 mm	58.9 m	23.6 m	11.8 m	5.9 m		Alarm	
DORI Distance	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the				ard system		Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
		video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation					Network	
	distances. For						Network Port	RJ-45 (10/100 Base-T)
and commissioning manual/project design tool.				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
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to					Interoperability	ONVIF (Profile S & Profile T); CGI
Siliai t Sedi Cil		event videos				User/Host	6 (Total bandwidth: 24 M)	
Video							Storage	FTP
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Browser	IE; Chrome; Firefox	

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Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		
Mobile Client	iOS;Android		
Cyber Security	Video encryption;Configuration encryption;Digest;WSSE;Account lockout;Security logs;Generation and importing of X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade		
Certification			

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: 1.4 W (12 VDC), 2.2 W (PoE); Max.: 3.3 W (12 VDC), 4.4 W (PoE) (H.265 + intelligence on + warm light 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	161.6 mm × 70.0 mm × 69.7 mm (6.36" × 2.75" × 2.74") (L × W × H)
Net Weight	0.24 kg (0.53 lb)
Gross Weight	0.35 kg (0.77 lb)

Ordering Information Model Description Type 2MP Entry Smart Dual Light IP CAMERA DH-IPC-HFW1230C-A-IL Fixed-focal Bullet Network DH-PFA130-E Water-proof Junction Box G3416GW G3/4" Water Joint DH-PFA151 Corner mount bracket DH-PFA152-E Pole Mount Bracket Accessories (Optional) DH-PFA134 Junction box DH-PFM321-EN DC12V1A power adapter DH-PFM321D-EN DC12V 1A power adapter DH-PFM320D-EN DC12V2A power adapter PFM900-E Integrated Mount Tester

Accessories

Optional:







DH-PFA130-E Water-proof Junction Box

DH-PFA151 Corner mount bracket

DH-PFA152-E Pole Mount Bracket









DH-PFA134 Junction box

DC12V1A power adapter

DH-PFM321D-EN DC12V 1A power adapter



DH-PFM320D-EN DC12V2A power adapter



PFM900-F Integrated Mount Tester

Ceiling Mount	Junction Mount	Pole Mount(Vertical)	

Dimensions (mm[inch])

