

# 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 ±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) 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.
Image Sensor	1/2.8" CMOS					Stream Capability	2 streams
Max. Resolution	1920 (H) × 1080 (V)					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM	16 MB					Bit Rate Control	VBR;CBR
RAM	64 MB					Video Bit Rate	H.264: 32 kbps–4096 kbps; H.265: 12 kbps–4096 kbps
Scanning System	Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s					BLC	Yes
Min. Illumination	0.005 lux@F1.6 (Color, 30 IRE); 0.0005 lux@F1.6 (B/W, 30 IRE); 0 lux (Illuminator on)					HLC	Yes
S/N Ratio	> 56 dB					WDR	DWDR
Illumination Distance	Up to 30 m (98.43 ft) (IR) Up to 30 m (98.43 ft) (Warm light)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator On/Off Control	Auto;Manual					Gain Control	Auto/Manual
Illuminator Number	1 (Multi-core (IR + warm) light)					Noise Reduction	3D NR
Angle Adjustment	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Motion Detection	OFF/ON (4 areas, rectangular)
Lens						Region of Interest (RoI)	Yes (4 areas)
Lens Type	Fixed-focal					Smart Illumination	Yes
Lens Mount	M12					Smart Dual Light	Yes
Focal Length	2.8 mm; 3.6 mm					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Max. Aperture	F1.6					Mirror	Yes
Field of View	2.8 mm: H: 103°; V: 55°; D: 123° 3.6 mm: H: 87°; V: 44°; D: 105°					Privacy Masking	4 areas
Iris Control	Fixed					Audio	
Close Focus Distance	2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)					Built-in MIC	Yes, built-in Mic
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Audio Compression	G.711a; G.711Mu; PCM; G.726
		2.8 mm	44.1 m ( 144.69 ft)	17.7 m ( 58.07 ft)	8.8 m ( 28.87 ft)	4.4 m ( 14.44 ft)	Alarm
DORI Distance	3.6 mm	58.9 m ( 193.24 ft)	23.6 m ( 77.43 ft)	11.8 m ( 38.71 ft)	5.9 m ( 19.36 ft)	Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception; SMD (human)
		*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the 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 and commissioning manual/project design tool.					
Intelligence						Network	
Human Detection	Support the classification and accurate detection of human					Network Port	RJ-45 (10/100 Base-T)
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					SDK and API	Yes
Video						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Interoperability	ONVIF (Profile S & Profile T); CGI
						User/Host	6 (Total bandwidth: 24 M)
						Storage	FTP
						Browser	IE; Chrome; Firefox

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
<b>Certification</b>	
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
<b>Power</b>	
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)
<b>Environment</b>	
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
<b>Structure</b>	
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)

## Accessories

Optional:



DH-PFA130-E  
Water-proof Junction Box



DH-PFA151  
Corner mount bracket



DH-PFA152-E  
Pole Mount Bracket



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



Ceiling Mount



Junction Mount



Pole Mount(Vertical)

## Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-HFW1230C-A-IL	2MP Entry Smart Dual Light Fixed-focal Bullet Network Camera
Accessories (Optional)	DH-PFA130-E	Water-proof Junction Box
	G3416GW	G3/4" Water Joint
	DH-PFA151	Corner mount bracket
	DH-PFA152-E	Pole Mount Bracket
	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

## Dimensions (mm[inch])

