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# dahua DH-IPC-HFW1230C-A-IL 2MP Entry Smart Dual Light 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**

### Camera

Image Sensor	1/2.8" CMOS
eMsaoxlu. tiRon	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s

Min. Illumination	0.005 <u>lux@F1.6</u> (Color, 30 IRE); 0.0005 <u>lux@F1.6</u> (B/W, 30 IRE); 0 lux (Illuminator on)
S/N Ratio	56 dB
	Up to 30 m (98.43 ft) (IR)
Illumination Distance	Up to 30 m (98.43 ft) (Warm light)
Illuminator On/Off Control	Auto;Manual
Illuminator Number	1or(eM(luRlti+-cwarm) light)
	Pan: 0°–360°
Angle Adjustment	Tilt: 0°–90°
	Rotation: 0°–360°
Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	F1.6
	2.8 mm: H: 103°; V: 55°; D: 123°
Field of View	3.6 mm: H: 87°; V: 44°; D: 105°
Iris Control	Fixed

		2.8 mm: 0.8	m (2.62 ft)		
Close Focus Distance		3.6 mm: 1.3 m (4.27 ft)			
	Lens	Detect	Observe	Recognize	Identify
		44.1 m	17.7 m	8.8 m	4.4 m
	2.8 mm	( 144.69 ft)	( 58.07 ft)	( 28.87 ft)	( 14.44 ft)
		58.9 m	23.6 m	11.8 m	5.9 m
	3.6 mm	( 193.24 ft)	( 77.43 ft)	( 38.71 ft)	( 19.36 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (E N-62676-4) for defining the ability of a person viewing the video to dist		,		
DORI	inguish persor	ns or objects w	ithin a covered	I area.	
Distance	The numbers in this table do not reflect intelligent function distances.  For intelligent function distances, refer to installation and commissioni				
	ng manual/pro		•	istaliation and (	commissioni

### Lens

Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.8 mm; 3.6 n	nm		
Max. Aperture	)	F1.6			
Field of View			03°; V: 55°; D: 1 7°; V: 44°; D: 10		
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)			
	Lens	Detect	Observe	Recognize	Identify
	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)
DORI	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)
Distance	*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.			g the I area. tion	

# Intelligence

Human Detection	Support the classification and accurate detection of human
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos

# Video

Video Compression	:65; H.264; H.264H; H.264B; MJPEG (Only supported the sub stream)
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Smart Codec	Smart H.265+; Smart H.264+
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	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
Video Frame Rate	each stream; for multiple streams, the values will be s ubjected to the total encoding capacity.
Stream Capability	2 streams
	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
Resolution	720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
	(352 × 288/352 × 240)
Bit Rate Control	VBR;CBR
Video Bit Rate	H.264: 32 kbps-4096 kbps; H.265: 12 kbps-4096 kbp s
Day/Night	Auto(ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional c ustom
Gain Control	Auto/Manual

eNdouiscetiRon	3D NR
tMecotitioonn De	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Smart Illumination	Yes
Smart Dual Light	Yes
olmtaatigoenR	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Audio Built-in MIC	Yes, built-in Mic
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
	Network disconnection; IP conflict; illegal access;
Alarm Event	motion detection; video tampering; audio detection;
	security exception; SMD (human)
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes

Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTC P; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	rOoNfiVleIF (P 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
	Video encryption;Configuration encryption;Digest;WSS E;Account lockout;Security logs;Generation and import ing of
	X.509 certification;HTTPS;Trusted boot;Trusted execution;Trusted upgrade
Cyber Security	on, matter application
Cyber Security	
	CE-LVD: EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive
	2014/30/EU
Certification	
Certifications	

Power	
Power Supply	
	12 VDC/PoE (802.3af)
	Basic: 1.4 W (12 VDC), 2.2 W (PoE);
Power Consumption	Max.: 3.3 W (12 VDC), 4.4 W (PoE) (H.265 + intelligen
	ce 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
	161.6 mm × 70.0 mm × 69.7 mm (6.36" × 2.75" ×
Product Dimensions	2.74") (L × W × H)
Net Weight	0.24 kg (0.53 lb)

Gross Weight 0.35 kg (0.77 lb)
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## Structure

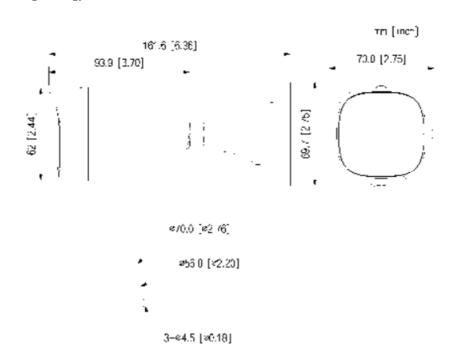
Ordering Information				
Туре	Model	Description		
IP CAMERA	DH-IPC-HFW1230C-A-IL	2MP Entry Smart Dual Lig ht Fixed-focal Bullet Netwo rk Camera		
	DH-PFA130-E	Water-proof Junction Box		
	G3416GW	G3/4" Water Joint		
	DH-PFA151	Corner mount bracket		
	DH-PFA152-E	Pole Mount Bracket		
	DH-PFA134	Junction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

# **Accessories**

### Optional:



### **Dimensions (mm[inch])**



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• www.dahuasecurity.com

### **Frequently Asked Questions**

### Q: How far can the camera detect objects?

A: The camera can detect objects up to 44.1m with a 2.8mm lens and up to 58.9m with a 3.6mm lens.

### Q: What is the purpose of Smart Dual Light technology?

A: Smart Dual Light technology switches between IR illuminator and white light based on motion to provide full-color video recording when needed.

# **Documents / Resources**



dahua DH-IPC-HFW1230C-A-IL 2MP Entry Smart Dual Light Bullet Netw ork Camera [pdf] Owner's Manual

DH-IPC-HFW1230C-A-IL, DH-IPC-HFW1230C-A-IL 2MP Entry Smart Du al Light Bullet Network Camera, 2MP Entry Smart Dual Light Bullet Network Camera, Smart Dual Light Bullet Network Camera, Dual Light Bullet Network Camera, Bullet Network Camera, Network Camera

### References

- User Manual
- Dahua
- ♦ 2MP Entry Smart Dual Light Bullet Network Camera, Bullet Network Camera, Dahua, DH-IPC-HFW1230C-A-IL, DH-IPC-HFW1230C-A-IL 2MP Entry Smart Dual Light Bullet Network Camera, Dual Light Bullet Network Camera, Network Camera, Smart Dual Light Bullet Network Camera

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