

# DH-IPC-HFW1230TL-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. • 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 IR LED and warm light, the max. IR illumination distance is 30 m and warm light distance is 30 m.
- Rotation mode, 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 and illegal access.
- Built in Mic.
- 12 VDC/PoE power supply,
- IP67 protection.
- Supports human detection.



### Image Flip

For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

### **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.

# Entry Series | DH-IPC-HFW1230TL-A-IL

### **Technical Specification**

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Fixed-focal         Lens Mount       M12         Focal Length       2.8 mm;3.6 mm         Max. Aperture       F1.6         Field of View       2.8 mm; H: 104°; V: 55°; D: 124° 3.6 mm; H: 88°; V: 44°; D: 105°         Field of View       2.8 mm; H: 104°; V: 55°; D: 124° 3.6 mm; H: 88°; V: 44°; D: 105°         Iris Control       Fixed         Close Focus       Eixed         DORI       2.8 mm       0.8 m (2.62 ft) 3.6 mm; 1.3 m (4.27 ft)       Recognize       Identify         DORI       2.8 mm       0.44 n (144.69 ft)       17.7 m (28.87 ft)       8.8 m (14.44 ft)         DORI       3.6 mm       13.8 m (193.24 ft)       23.6 m       11.8 m (28.87 ft)       9.9 m (193.6 ft)         Intelligence       Support the classification and mergers       9.9 m (193.6 ft)         Intelligence       Support the classification and mergers of the (193.67 ft)       11.8 m (193.67 ft)       11.8 m (193.67 ft)         Smart Search       Support the classification and mergers of the superformer line intelligent search, event extraction and mergers of the videos       11.8 m (193.67 ft)       11.8 m (193.67 ft)         Video       Support the classification and mergers of the videos       Support the support the videos       11.8 m (193.67 ft)       11.8 m (193.67 ft)         Simart Search       Support the classifica	Angle Adjustment		Tilt: 0°–90°				
Lens Mount       M12         Focal Length       2.8 mm;3.6 mm         Max. Aperture       F1.6         Field of View       3.6 mm         3.6 mm       H: 104*; V: 55°; D: 124*         3.6 mm       H: 88*; V: 44°; D: 105*         Iris Control       Fixed         Close Focus Distance       2.8 mm: 0.8 m (2.62 ft)         3.6 mm: 1.3 m (4.27 ft)       8.8 m         00Ri       2.8 mm         013.6 mm       17.7 m         8.8 m       4.4 m         (144.69 ft)       (58.07 ft)         (28.8 mf)       11.8 m         3.6 mm       58.9 m         (13.2 kft)       (14.44 ft)         3.6 mm       59.9 m         (13.2 kft)       (13.8 ft)         10stance       Support the classification and accurate detection of human         Intelligentserver       Support the classification and accurate detection of intelligent search, event extraction and merging to even videos         Video       Video       H.265; H.264; H.264H; H.264H; H.264H; M.9EG (only supported by the sub stream)         Smart Codec       Smart H.265+; Smart H.264+         Video Compression       H.265; H.264; H.264H; H.264H; H.264H         Sub stream: T920 × 1080@(1-25/30 fps)         Sub stream: T920 × 108	Lens						
Focal Length       2.8 mm; 3.6 mm         Max. Aperture       F1.6         Field of View       2.8 mm; H: 104°; V: 55°; D: 124° 3.6 mm; H: 88°; V: 44°; D: 105°         Iris Control       Fixed         Close Focus Distance       2.8 mm: 0.8 m (2.62 ft) 3.6 mm: 1.3 m (4.27 ft)         DORI Distance       Lens       Observe       Recognize         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 Distance       2.8 mm       11.8 m (193.24 ft)       5.9 m 	Lens Type		Fixed-focal				
Max. Aperture       F1.6         Field of View $2.8 \text{ mm: H: }104^{\circ}; V: 55^{\circ}; D: 124^{\circ}; 3.6 \text{ mm: H: }88^{\circ}; V: 44^{\circ}; D: 105^{\circ}}$ Iris Control       Fixed         Iris Control       Fixed         Close Focus Distance $2.8 \text{ mm: }0.8 \text{ m}(2.62 \text{ ft}); 3.6 \text{ mm: }1.3 \text{ m}(4.27 \text{ ft})$ Recognize       Identify         DORI       Lens       Detect       Observe       Recognize       Identify         Jostance $3.6 \text{ mm}$ $44.1 \text{ m}$ $17.7 \text{ m}$ $8.8 \text{ m}$ $4.4 \text{ m}$ DORI       Dostance       Sa.9 m $23.6 \text{ m}$ $11.8 \text{ m}$ $5.9 \text{ m}$ Jostance       Support the classification and accurate detection of human $11.8 \text{ m}$ $3.7 \text{ ft}$ $19.36 \text{ ft}$ Intelligence       Support the classification and accurate detection of human       Work together with Smart NVR to perform refine intelligent search, event extraction and merging to even videos       Yideo         Video Compresion       H.265; H.264; H.264H; H.264H; M.19EG (only supported by the sub stream)       Sub stream: $1920 \times 1080 (1-25/30 \text{ fps})$ Sub stream: $1920 \times 1080 (1-25/30 \text{ fps})$ Sub stream: $704 \times 5760 (1-25 \text{ fps})/704 \times 4800 (1-300 \text{ fps})$	Lens Mount		M12				
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3.6 mm     (193.24 ft)     (77.43 ft)     (38.71 ft)     (19.36 ft)       Intelligence     Support the classification and accurate detection of human     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 even videos       Video     H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)       Smart Codec     Smart H.265+; Smart H.264+       Video Erame Bate     Main stream: 1920 × 1080@(1-25/30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps)		2.8 mm					
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 even videos         Video       H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)         Smart Codec       Smart H.265+; Smart H.264+         Video Erame Bate       Main stream: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)		3.6 mm					
Human     human       Smart Search     Work together with Smart NVR to perform refine intelligent search, event extraction and merging to even videos       Video     Video Compression       H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)       Smart Codec     Smart H.265+; Smart H.264+       Wain stream: 1920 × 1080@(1-25/30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps) Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps)	Intelligend	ce					
Smart Search       intelligent search, event extraction and merging to even videos         Video       H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)         Smart Codec       Smart H.265+; Smart H.264+         Video Erame Bate       Main stream: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)	Human Detection						
Video Compression       H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)         Smart Codec       Smart H.265+; Smart H.264+         Main stream: 1920 × 1080@(1–25/30 fps)         Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)         System	Smart Search		intelligent search, event extraction and merging to event				
Video Compression     by the sub stream)       Smart Codec     Smart H.265+; Smart H.264+       Main stream: 1920 × 1080@(1-25/30 fps)       Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps)       Video Erame Bate	Video						
Main stream: 1920 × 1080@(1–25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)	Video Compression						
Sub stream: 704 × 576@(1-25 fps)/704 × 480@(1-30 fps)	Smart Codec		Smart H.265+; Smart H.264+				
stream; for multiple streams, the values will be subjecte to the total encoding capacity.	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				

Stream Capability	2 streams		
Resolution	1080p (1920 ×1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR/VBR		
Video Bit Rate	H.264: 32 kbps-4096 kbps H.265: 12 kbps-4096 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	DWDR		
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Gain Control	Auto;Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ 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			
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); security exception		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P		
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		
Mobile Client	iOS;Android		
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-HFW1230TL-A-IL

### 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: 1.8 W (12 VDC); 2.3 W (PoE) Max. (H.265 + intelligence on+ WDR + illuminator intensity): 6.3 W (12 VDC); 7.8 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 × 80.2 mm × 76.2 mm (7.79" × 3.16" × 3.00") (L × W × H)			
Net Weight	0.31 kg (0.68 lb)			
Gross Weight	0.45 kg (0.99 lb)			

### Accessories

### Optional:



Junction Box



PFA152-E

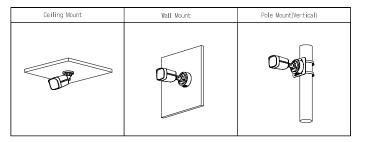
Pole Mount

Bracket

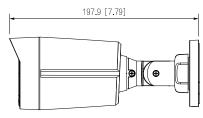


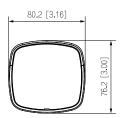
PFM321D 12 VDC 1 A Power Adapter

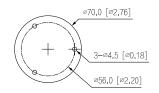




### Dimensions (mm[inch])







### **Ordering Information**

Туре	Model	Description	
2MP Camera	DH-IPC-HFW1239TL1-A-IL	2MP Entry Smart Dual Light Fixed- focal Bullet Network Camera	
Accessories (Optional)	PFA134	Junction Box	
	PFA152-E	Pole Mount Bracket	
	PFM321D	12 VDC 1A Power Adapter	
	PFM900-E	Integrated Mount Tester	