

# DH-IPC-HFW1230T1-ZS-S4

2MP Entry IR Vari-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 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.

### **Motion Detection**

When moving objects appear in the monitoring image, Dahua Motion Detection (General) technology triggers alarm or records.

### **Smart Illumination**

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

- 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 50 m.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, privacy masking, no SD card, SD card full, SD card error, network disconnection, IP conflict, and illegal access.
- Supports max. 256 GB SD card.
- 12V DC/PoE power supply.
- IP67 protection.



### Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 works normal after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

## Entry | DH-IPC-HFW1230T1-ZS-S4

### **Technical Specification**

Camera	
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Day/Night

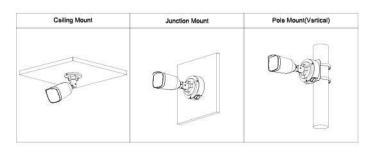
Camera						
Image Senso	r	1/2.8" CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
ROM		16 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Sh	Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.008 Lux@F1.7 (Color, 30 IRE) 0.0008 Lux@F1.7 (B/W, 30 IRE) 0 Lux (Illuminator on)				
S/N Ratio		> 56 dB				
Illumination	Distance	50 m (164.04 ft) (IR)				
Illuminator C	Dn/Off Control	Auto; Manual				
Illuminator Number		2 (IR)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type Motorized vari-focal						
Lens Mount		φ14				
Focal Length		2.8 mm-12 mm				
Max. Aperture		F1.7				
Field of View		Horizontal: 101°–33.5°; Vertical: 52.5°–19°; Diagonal: 125°–38.5°				
Iris Control		Fixed				
Close Focus Distance		1.2 m (3.94 ft)				
	Lens	Detect	Observe	Recognize	Identify	
DORI Distance	W	48 m (157.48 ft)	19 m (62.34 ft)	10 m ( 32.81 ft)	5m (16.40 ft)	
	т	131 m (429.79 ft)	52 m (170.60 ft)	26 m ( 85.30 ft)	13m (42.65 ft)	
Video						
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)				
Smart Codec		Smart H.265+; Smart H.264+				
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.				
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–6144 kbps H.265: 12 kbps–6144 kbps				

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°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Mirror	Yes
Privacy Masking	4 areas
Alarm	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception; defocus detection
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
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
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; DDNS
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
User/Host	6
Storage	FTP; Micro SD card (Support max. 256 G)
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android
Certification	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Power	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic: 1.6W (12 V DC); 2.3W (PoE) Max. (H.265 + ICR + IR intensity): 4.3 W (12V DC); 5.5 W (PoE)
Environment	
Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F)

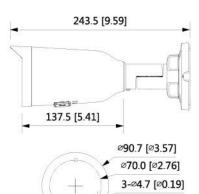
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Operating Humidity	≤95%
Protection	IP67
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
Structure	
Casing	Metal + plastic
Product Dimensions	243.5 mm × Ø90.7 mm (9.59" × Ø3.57")
Net Weight	0.43 kg (0.95 lb)
Gross Weight	0.68 kg (1.50 lb)



### Dimensions (mm[inch])

Ordering Information				
Туре	Model	Description		
2MP Camera	DH-IPC-HFW1230T1-ZS-S4	2MP Entry IR Vari-focal Dome Netwok Camera		
	PFA13G	Junction Mount Bracket		
	PFA13G+PFA152-E	Pole Mount Bracket		
Accessories	PFM321D	12V DC 1A Power Adapter		
(Optional)	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender		
	PFM900-E	Integrated Mount Tester		
	PFM114	TLC SD Card		





### Accessories

### **Optional:**



PFA13G Junction Mount Bracket



LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender



PFA13G+PFA152-E Pole Mount Bracket



PFM900-E Integrated Mount Tester

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PFM321D DC 12V 1A Power Adapter



PFM114 TLC SD Card



Rev 001.001