

# DH-IPC-HFW1230T1-ZS-S5

## 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.

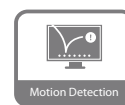
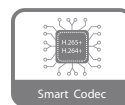
#### Smart Illumination

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.

#### 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.

- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080p) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 50 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, DWDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access
- Supports max. 256 GB Micro 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, Dahua network camera better meets the demands of cyber security and privacy protection.

### 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 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.

**Technical Specification**

**Camera**

Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.005 Lux @F1.5
S/N Ratio	>56 dB
Illumination Distance	50 m (164.0 ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	2 (IR LED)
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	F1.5				
Field of View	Pan: 101°–33.5° Tilt: 52.5°–19° Diagonal: 125°–38.5°				
Iris Control	Fixed				
Close Focus Distance	1.2m (3.9 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	48 m (157.5 ft)	19 m (62.3 ft)	10 m (32.8 ft)	5 m (16.4 ft)
	T	131 m (429.8 ft)	52 m (170.6 ft)	26 m (85.3 ft)	13 m (42.7 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 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
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–6400 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°/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; safety abnormality; defocus detection
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**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; HTTPS; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec; milestone
User/Host	6
Storage	FTP; Micro SD card (support max. 256G)
Browser	IE Chrome Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

**Certification**

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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**Power**

Power Supply	12V DC/PoE (802.3af)
Power Consumption	Basic power consumption: 1.4W (12V DC); 2.2W (PoE) Max. power consumption (ICR + IR intensity + DWDR): 5W (12V DC); 6.4W (PoE)

## Environment

Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Operating Humidity	≤95%
Protection	IP67

## Structure

Casing	Metal + plastic
Product Dimensions	243.5 mm × Φ90.7 mm (9.6" × Φ3.6")
Net Weight	0.43 kg (0.9 lb)
Gross Weight	0.68 kg (1.5 lb)

## Ordering Information

Type	Model	Description
2MP Camera	DH-IPC-HFW1230T1P-ZS-S5	2MP Entry IR vari-focal Bullet Network Camera, PAL
	DH-IPC-HFW1230T1N-ZS-S5	2MP Entry IR vari-focal Bullet Network Camera, NTSC
Accessories (optional)	PFA130-E	Junction Box
	PFA152-E	Pole Mount
	PFM321D	12V DC 1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester
	PFM114	TLC SD Card

## Accessories

### Optional:



PFA130-E  
Junction Box



PFA152-E  
Pole Mount



PFM321D  
12V DC 1A Power Adapter



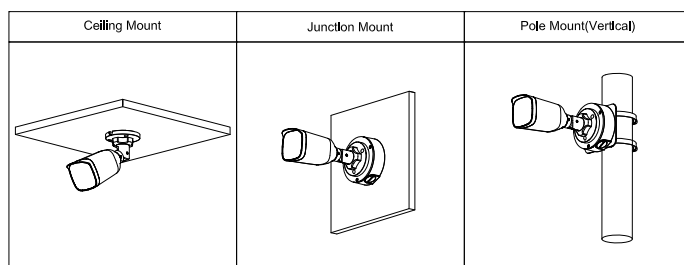
LR1002-1ET/1EC  
Single-port Long Reach  
Ethernet over Coax Extender



PFM900-E  
Integrated Mount Tester



PFM114  
TLC SD Card



## Dimensions (mm[inch])

