

# IPC-HFW1431T1-ZS-S4

4MP Entry IR Vari-focal Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440) @25/30 fps, and supports max. 4MP (2688 × 1520) @20 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
- Image Rotation, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 GB SD card
- 12V DC/PoE power support
- IP67 protection



## System Overview

With features of simple installation, easy operation, and high performance-cost ratio, Entry Series 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+ & H.264+)

With advanced scene-adaptive rate control algorithm, 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, Motion Detection (General) technology triggers alarm or records.

### Wide Dynamic Range (WDR)

With advanced Wide Dynamic Range (WDR) technology, network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

### Smart IR

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

### 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification					
Camera					
Image Sensor		1/3 "4Megapixel progressive CMOS			
Effective Pixels		2688 (H) ×1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s			
Min. Illumination		0.03 Lux @ F1.7			
IR Distance		50 m (164.0 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		2			
Pan/Tilt/Rotation Range		Horizontal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°			
Pan/Tilt/Rotation Range					
Lens Type		Motorized vari-focal			
Mount Type		φ14			
Focal Length		2.8 mm–12 mm			
Max. Aperture		F1.7			
Field of View		Horizontal: 98°–31° Vertical: 55°–18° Diagonal: 116°–36°			
Iris Type		Fixed aperture			
Close Focus Distance		0.8 m (2.6 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	66.0 m (183.7 ft)	26.4 m (73.5 ft)	13.2 m (36.7 ft)	6.6 m (18.4 ft)
	T	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)
Video					
Video Compression		H.265; H.264; H.264B; MJPEG			
Smart Codec		Yes			
Video Frame Rate		Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)			
Stream Capability		2 streams			
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 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	
Day/Night		Auto(ICR)/Color/B/W	
BLC		Yes	
HLC		Yes	
WDR		120 dB	
White Balance		Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control		Manual/Auto	
Noise Reduction		3D DNR	
Motion Detection		OFF/ON (4 areas, rectangular)	
Region of Interest(Roi)		Yes (4 areas)	
Smart IR		Yes	
Image Rotation		0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)	
Mirror		Yes	
Privacy Masking		4 areas	
Network			
Network		RJ-45 (10/100 Base-T)	
Protocol		HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP	
Interoperability		ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;	
User/Host		20	
Edge Storage		Cloud; FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Browser		IE Chrome Firefox	
Management Software		Smart PSS; DSS; DMSS	
Mobile Phone		IOS; Android	
Certification			
Certifications		CE-LVD: EN60950-1 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		< 7.5W (PoE)	
Environment			
Operating Conditions		-30°C to +55°C (-22°F to +131°F) /less than≤95%	
Storage Conditions		-40°C to +60°C (-40°F to +140°F)	
Ingress Protection		IP67	

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## Structure

Casing	Metal + plastic
Dimensions	243.5 mm × Φ90.7 mm (9.6" × Φ3.6")
Net Weight	0.44 kg (1.0 lb)
Gross Weight	0.69 kg (1.5 lb)

## Ordering Information

Type	Part Number	Description
4MP Camera	IPC-HFW1431T1P-ZS-S4	4MP Entry IR Vari-focal Bullet Network Camera,PAL
	IPC-HFW1431T1N-ZS-S4	4MP Entry IR Vari-focal Bullet Network Camera,NTSC
Accessories (optional)	PFA130-E	Junction Box
	PFA152-E	Pole mount
	PFM321D	DC12V1A 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  
DC12V1A Power  
Adapter



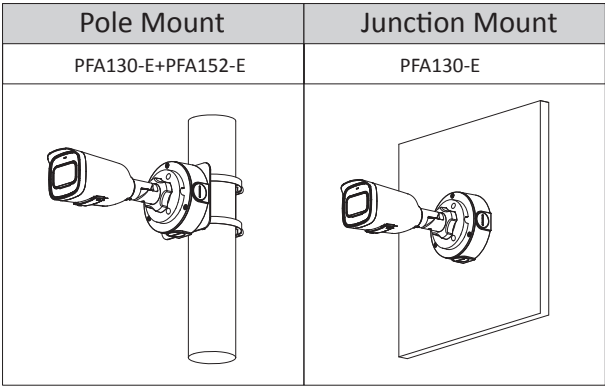
LR1002-1ET/1EC  
Single-port long  
reach ethernet over  
coax extender



PFM900-E  
Integrated Mount  
tester



PFM114  
TLC SD card



## Dimensions (mm[inch])

