

# DH-IPC-HFW1431T-ZS-S4

4MP Entry IR Vari-focal Bullet Network Camera



- $\cdot$  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 NR, 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 supply
- IP67 protection



### Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua 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+ & 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.

### WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua 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 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.

### **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 comprising 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.

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### **Technical Specification**

Smart Codec

Video Frame Rate

Stream Capability

Camera						
Image Sensor		1/3 "4Megapixel progressive CMOS				
Max. Resolution		2688 (H) × 1520 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				
S/N Ratio		> 56 dB				
Min. Illumination		0.03 Lux @ F1.7				
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				
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				
Close Focus Dista	ance	0.8 m (2.6 ft)				
	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)	
DORI Distance	т	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)	
	(EN-6267 video to o The numl distances	etect, Observe, Recognize, Identify) is a standard system 76-4) for defining the ability of a person viewing the distinguish persons or objects within a covered area. bers in this table do not reflect intelligent function 5. For intelligent function distances, refer to installation and ioning manual/project design tool.				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by sub stream)				

Smart H.265+/ Smart H.264+

2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps)

704 × 576 (1 fps-20/25 fps) 704 × 480 (1 fps-20/30 fps)

Main Stream:

Sub Stream:

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 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 2688 × 1520 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Alarm			
Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception; defocus detection;		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; truste execution; trusted upgrade		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P		
User/Host	20		
Storage	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: EN62368-1 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	< 7.4W			
Environment				
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than≤95%			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
Protection	IP67			
Structure				
Casing	Metal			
Dimensions	244.1 mm × Φ90.4 mm (9.6" × Φ3.6")			
Net Weight	0.85 kg (1.9 lb)			
Gross Weight	1.10 kg (2.4 lb)			

### **Ordering Information**

Туре	Part Number	Description	
4MP Camera	DH-IPC-HFW1431TP-ZS-S4	4MP Entry IR Vari-focal Bullet Network Camera,PAL	
	DH-IPC-HFW1431TN-ZS-S4	4MP 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

LR1002-1ET/1EC

Single-port long

reach ethernet over

coax extender





PFA152-E

Pole Mount



PFM321D 12V DC 1A Power Adapter





Integrated Mount

tester







### Dimensions (mm[inch])





