

DH-IPC-HFW1431T1-ZS-S4

4MP Entry IR Vari-focal Bullet Netwok 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 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.



Technical Specification							Bit Rate Control	CBR; VBR
Camera							Video Bit Rate	H.264: 32 kbps-6144 kbps
Image Sensor		1/3 "4Megapixel progressive CMOS					Day/Night	H.265: 12 kbps-6144 kbps Auto(ICR)/Color/B/W
Max. Resolution		2688 (H) × 1520 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		128 MB					WDR	120 dB
Scanning System		Progressive						Auto/natural/street lamp/outdoor/manual/regional
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					White Balance	custom
S/N Ratio		> 56 dB					Gain Control	Manual/Auto
Min. Illumination		0.03 Lux @ F1.7					Noise Reduction	3D NR
Illumination Distance		50 m (164.0 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/C	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator Num	ber	2 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotation	n Range	Pan: 0°-360° Tiltl: 0°-90°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
rany mity Notation	ii naiige	Rotation: 0°–360°					Mirror	Yes
Pan/Tilt/Rotation Rai		nge					Privacy Masking	4 areas
Lens Type		Motorized vari-focal					Alarm	
Mount Type		ф14					Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception; defocus detection;
Focal Length		2.8 mm-12 mm					Network	security exception, delocas detection,
Max. Aperture		F1.7					Network	RJ-45 (10/100 Base-T)
Field of View		Horizontal: 98°–31° Vertical: 55°–18° Diagonal: 116°–36°					SDK and API	Yes
Iris Type		Fixed					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; trusted execution; trusted upgrade
Close Focus Distance		0.8 m (2.6 ft)						
	Lens			Recognize				IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
DORI Distance	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)		Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
	Т	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
Video							User/Host	20
Video Compressi	Video Compression		: H.264B; MJPE n)	G(only support	ed		Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Smart Codec		Smart H.265+/ Smart H.264+					Browser	IE Chrome Firefox
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)					Management Software	Smart PSS; DSS; DMSS
							Mobile Phone	IOS; Android
							Certification	
Stream Capability		2 streams					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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)					Power	
							Power Supply	12V DC/POE (802.3af)

Entry Series | DH-IPC-HFW1431T1-ZS-S4

Power Consumption	< 7.5W (PoE)		
Environment			
Operating Conditions	-30°C to +55°C (-22°F to +131°F) /less than≤95%		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67		
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						
Туре	Part Number	Description				
4MP	DH-IPC-HFW1431T1P-ZS-S4	4MP Entry IR Vari-focal Bullet Netwok Camera,PAL				
Camera	DH-IPC-HFW1431T1N-ZS-S4	4MP Entry IR Vari-focal Bullet Netwok Camera,NTSC				
	PFA130-E	Junction Box				
	PFA135	Junction Box				
	PFA152-E	Pole mount				
Accessories (optional)	PFM321D	12V DC 1A Power adapter				
(ορεισιαί)	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



PFA135 Pole Mount



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

Celling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])



