

DH-IPC-HDPW1431R1-ZS-S4

4MP Entry IR Vari-focal Dome 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: 40 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				Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps			
Camera							Day/Night	Auto(ICR)/Color/B/W
Image Sensor		1/3 "4Megapixel progressive CMOS					BLC	Yes
Max. Resolution		2688 (H) ×1520 (V)					HLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB					WDR	
Scanning System		Progressive					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					Gain Control	Manual/Auto
S/N Ratio		> 56 dB					Noise Reduction	3D NR
Min. Illumination		0.03 Lux @ F1.7					Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Dist	ance	40 m (131.2 ft)					Region of Interest(RoI)	Yes (4 areas)
Illuminator On/C	off Control	Auto/Manual					Smart Illumination	Yes
Illuminator Number		2 (IR LED)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower.)
Pan/Tilt/Rotation Range		Pan: 0°-355° Tilt: 0°-75° Rotation 0°-355°					Mirror	Yes
Lens		Notation 0 353					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;
Focal Length		2.8 mm-12 mm					Network	security exception; defocus detection;
Max. Aperture		F1.7					Network	RJ-45 (10/100 Base-T)
Field of View		Horizontal: 98°–31° Vertical: 55°–18°					SDK and API	Yes
Iris Type	Iris Type		Diagonal: 116°–36° Fixed				Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509
Close Focus Distance		0.8 m (2.6 ft)						certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
	Lens	Detect	Observe	Recognize	Identify		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
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)			NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour
	Т	200.0 m	80.0 m	40.0m	20.0 m		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
	·	(656.2 ft)	(262.5 ft)	(131.2 ft)	(65.6 ft)		User/Host	20
Video							Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)					Browser	IE Chrome Firefox
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS; DSS; DMSS
		Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps)					Mobile Phone	IOS; Android
Video Frame Rate							Certification	
Stream Capability		704 × 480 (1 fps–20/30 fps) 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)
							,	



Bit Rate Control

CBR; VBR

Power Consumption

< 6.4W

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	Plastic
Dimensions	98.1 mm × Φ122 mm (3.9" × Φ4.8")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.57 kg (1.3 lb)

Ordering Information					
Туре	Part Number	Description			
4MP Camera	DH-IPC-HDPW1431R1P-ZS-S4	4MP Entry IR Vari-focal Dome Netwok Camera,PAL			
	DH-IPC-HDPW1431R1N-ZS-S4	4MP Entry IR Vari-focal Dome Netwok Camera,NTSC			
	PFA137	Junction Box			
	PFA123	Junction Box			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
	PFA106	Mount Adapter			
Accessories (optional)	PFB220C	Ceiling 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			



PFM321D 12V DC 1A Power Adapter



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



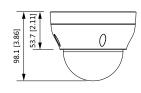
PFM900-E Integrated Mount tester

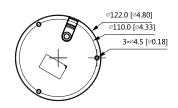


PFM114 TLC SD card

Celling Mount	Wa ll Mount	Ce ili ng Mount
Pole Mount(Vertical)		1

Dimensions (mm[inch])





Accessories

Optional:



PFA137 Junction Box



PFA152-E Pole Mount



PFA123 Junction Box



PFA106 Mount Adapter



PFB203W Wall Mount



PFB220C Celling Mount

Rev 001.001

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