

DH-IPC-HDW1431S-S4

4MP Entry IR Fixed-focal Eyeball 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: 30 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, network disconnection, IP conflict, illegal access, voltage detection
- 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 ±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						H.265: 12 kbps-6144 kbps
Max. Resolution		2688 (H) ×1520 (V)					Day/Night	Auto(ICR)/Color/B/W
ROM		128 MB					BLC	Yes
RAM		128 MB					HLC	Yes
Scanning System		Progressive					WDR	120 dB
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
S/N Ratio		> 56 dB					Gain Control	Manual/Auto
Min. Illumination		0.03 Lux @ F2.0					Noise Reduction	3D NR
Illumination Distance		30 m (98.4 ft)					Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Illuminator On/Off Control		12 (IR LED)					Smart Illumination	Yes
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–78°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
		Rotation: 0°–360°					Mirror	Yes
Lens							Privacy Masking	4 areas
Lens Type		Fixed-focal					Alarm	
Mount Type Focal Length		M12 2.8 mm 3.6 mm					Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception
Max. Aperture		F2.0					Network	
		2.8 mm:	٥.				Network	RJ-45 (10/100 Base-T)
Field of View		Horizontal: 93° Vertical: 53° Diagonal: 111° 3.6 mm: Horizontal: 81° Vertical: 44° Diagonal: 95°					SDK and API Cyber Security	Yes 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
Iris Type		Fixed						execution; trusted upgrade
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)					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
	Lens	Detect	Observe	Recognize	Identify		Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P
DORI Distance	2.8mm	50.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	15.1 m (18.4 ft)		User/Host	20
	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		Storage	FTP; SFTP; NAS
Video		. , , , , (=====)						IE G
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)					Browser	Chrome Firefox
Smart Codec		Smart H.265+/ Smart H.264+					Management Software	Smart PSS; DSS; DMSS
		Main Stream:					Mobile Phone	IOS; Android
Video Frame Rate		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)					Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive
Stream Capability		2 streams					Certifications	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 ×					Power	
		480); VGA (640 × 480); CIF (352 × 288/352 ×240)					Power Supply	12V DC/POE (802.3af)

Entry Series | DH-IPC-HDW1431S-S4

Power Consumption	< 4.9W	
Environment		
Operating Conditions	-40°C to +55°C (-40°F to +131°F) /less than≤95%	
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection	IP67	
Structure		
Casing	Inner core:metal; cover:plastic	
Dimensions	84.9 mm × Φ108 mm (3.3" × Φ4.3")	
Net Weight	0.27 kg (0.6 lb)	
Gross Weight	0.40 kg (0.9 lb)	

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDW1431SP-S4	4MP Entry IR Fixed-focal Eyeball Netwok Camera,PAL			
Camera	DH-IPC-HDW1431SN-S4	4MP Entry IR Fixed-focal Eyeball Netwok Camera,NTSC			
	PFA130-E	Junction Box			
	PFB203W	Wall Mount			
	PFA106	Mount Adapter			
Accessories	PFB220C	Ceiling Mount			
(optional)	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			

Accessories

Optional:







PFA130-E Junction Box

PFB203W Wall Mount

PFA106 Mount Adapter







PFB220C Ceiling 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

Junction Mount	Wa ll Mount	Ceiling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])



