

DH-IPC-HDW1431T1-ZS-S4

4MP Entry IR Vari-focal Eyeball 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 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 ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Stream Capability

2 streams

Technical Specification							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);	
Camera						Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×	
Image Sensor		1/3 "4Megapixel progressive CMOS					480); VGA (640 × 480); CIF (352 × 288/352 ×240)	
Max. Resolution		2688 (H) ×1520 (V)				Bit Rate Control	CBR; VBR	
ROM		128 MB				Video Bit Rate	H.264: 32 kbps-6144 kbps	
RAM		128 MB					H.265: 12 kbps–6144 kbps Auto(ICR)/Color/B/W	
Scanning System		Progressive				Day/Night	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				BLC		
S/N Ratio		> 56 dB				HLC	Yes	
Min. Illumination	ı	0.03 Lux @ F1.7				WDR	120 dB	
Illumination Dist	ance	50 m (164.0 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Illuminator On/Off Control		Auto/Manual				Gain Control	Manual/Auto	
Illuminator Num	ber	2(IR LED)				Noise Reduction	3D NR	
- 1-11		Pan: 0°–355°				Motion Detection	OFF/ON (4 areas, rectangular)	
Pan/Tilt/Rotation	ii Kalige	Tilt: 0°-75° Rotation: 0°-360°				Region of Interest(RoI)	Yes (4 areas)	
Lens						Smart Illumination	Yes	
Lens Type		Motorized vari-focal				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)	
Mount Type		ф14				Mirror	Yes	
Focal Length		2.8 mm-12 mm				Privacy Masking	4 areas	
Max. Aperture		F1.7				Alarm		
Field of View		Horizontal: 98°–31° Vertical: 55°–18° Diagonal: 116°–36°				Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception; defocus detection;	
Iris Type		Fixed				Network	Network	
Close Focus Dista	ance	0.8 m (2.6 ft)				Network	RJ-45 (10/100 Base-T)	
	Lens	Detect	Observe	Recognize	Identify	SDK and API	Yes	
	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)	3DR unu / II	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	
DORI Distance	T *DORL(D	200.0 m (656.2 ft) etect, Observe,	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)	Cyber Security		
	(EN-6267 video to The num distances	76-4) for definin distinguish pers bers in this tabl s. For intelligent ioning manual/	g the ability of ons or objects e do not reflec function dista	a person viewi within a covere t intelligent fun nces, refer to in	ng the ed area. ction	Protocol	execution; trusted upgrade 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	
Video				Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P			
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)				User/Host	20	
Smart Codec		Smart H.265+/ Smart H.264+				Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
		Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps)				Browser	IE Chrome Firefox	
Video Frame Rat	е	Sub Stream: 704 × 576 (1 fps–20/25 fps)				Management Software	Smart PSS; DSS; DMSS	
		704 × 480 (1 fps–20/30 fps)				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	< 6.9W (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	Inner core: metal + plastic; cover: plastic	
Dimensions	108.8 mm × Φ122 mm (4.3" × Φ4.8")	
Net Weight	0.45 kg (1.0 lb)	
Gross Weight	0.63 kg (1.4 lb)	

Ordering Information Type Part Number Description 4MP Entry IR vari-focal Eyeball DH-IPC-HDW1431T1P-ZS-S4 Network Camera, PAL 4MP Camera 4MP Entry IR Vari-focal Eyeball DH-IPC-HDW1431T1N-ZS-S4 Network Camera, NTSC PFA130-E Junction Box PFB203W Wall mount PFA106 Mount adapter PFB220C Ceiling mount Accessories PFA152-E Pole Mount (optional) PFM321D 12V DC 1A Power adapter Single-port long reach ethernet LR1002-1ET/1EC Over coax extender PFM900-E Integrated Mount Tester PFM114 TLC SD Card

Accessories

Optional:







PFB203W Wall Mount



PFA106 Mount Adapter





Celling Mount



PFA152-F Pole Mount



PFM321D 12V DC 1A Power Adapter



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



PFM900-F Integrated Mount tester



PFM114 TLC SD card

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

Dimensions (mm[inch])



