

DH-IPC-HDW1431T-ZS-S4

4MP Entry IR Vari-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: 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 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.

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					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 Dist	Illumination Distance		50 m (164.0 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
Illuminator On/C	Illuminator On/Off Control		Auto/Manual				Region of Interest(RoI)	Yes (4 areas)
Illuminator Num	ber	2(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		Motorized vari-focal					Alarm	
Mount Type		φ14					Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception; defocus detection;
Focal Length Max Aperture		2.8 mm-12 mm					Network	security exception, actions acception,
Max. Aperture		F1.7 Horizontal: 98°–31°					Network	RJ-45 (10/100 Base-T)
Field of View	Field of View		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;
Close Focus Distance		0.8 m (2.6 ft)						IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
	Lens	Detect 66.0 m	Observe 26.4 m	Recognize 13.2 m	Identify 6.6 m		Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP;
DORI Distance	W	(183.7 ft)	(73.5 ft)	(36.7 ft)	(18.4 ft)		Protocol	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 Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)					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:					Management Software	Smart PSS; DSS; DMSS
		2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps)					Mobile Phone	IOS; Android
		Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)					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); 10; 1704 × 576/704 ×					Power	
		480); VGA (640 × 480); CIF (352 × 288/352 ×240)					Power Supply	12V DC/POE (802.3af)

Entry Series | DH-IPC-HDW1431T-ZS-S4

Power Consumption	< 6.9W	
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	Inner core: metal; cover: metal	
Dimensions	108.3 mm × Φ122 mm (4.3" × Φ4.8")	
Net Weight	0.69 kg (1.5 lb)	

0.87 kg (1.9 lb)

Ordering Information						
Туре	Part Number	Description				
4MP Camera	DH-IPC-HDW1431TP-ZS-S4	4MP Entry IR vari-focal Eyeball Netwok Camera,PAL				
	DH-IPC-HDW1431TN-ZS-S4	4MP Entry IR Vari-focal Eyeball Netwok Camera,NTSC				
	PFA130-E	Junction Box				
	PFB203W	Wall mount				
	PFA106	Mount adapter				
	PFB220C	Ceiling mount				
Accessories (optional)	PFA152-E	Pole Mount				
(optional)	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				



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



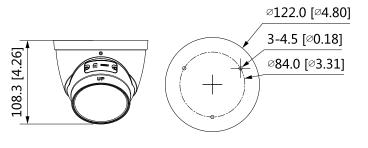
PFM900-E Integrated Mount tester



PFM114 TLC SD card

Junction Mount	Wa ll Mount	Ce ili ng Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])



Accessories

Gross Weight

Optional:



PFA130-E

Junction Box





PFB203W Wall Mount

PFA106 Mount Adapter







PFB220C Celling Mount

PFA152-E Pole Mount

PFM321D 12V DC 1A Power Adapter