

DH-IPC-HDW1431T1P-ZS-2812

4MP Entry IR Vari-focal Eyeball Netwok Camera



- \cdot 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: 60 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, IK10 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.



Entry Series |DH-IPC-HDW1431T1P-ZS-2812

Technical Specification

Camera						
Image Sensor		1/3 "4Megapixel progressive CMOS				
Max. Resolution		2688 (H) ×1520 (V)				
ROM		128 MB				
RAM		128 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				
S/N Ratio		> 56 dB				
Min. Illumination		0.01 Lux @ F1.6				
Illumination Distance		Illumination Distance 60 m				
Illuminator On/Off Control		Auto/Manual				
Illuminator Number		2(IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75° Rotation: 0°–360°				
Lens						
Lens Type		Motorized vari-focal				
Mount Type		ф14				
Focal Length		2.8 mm–12 mm				
Max. Aperture		F1.6				
Field of View		Horizontal: 98°–31° Vertical: 55°–18° Diagonal: 116°–36°				
Iris Type		Fixed				
Close Focus Distance		0.8 m (2.6 ft)				
	Lens	Detect	Observe	Recognize	Identify	
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)	
	т	200.0 m (656.2 ft)	80.0 m (262.5 ft)	40.0m (131.2 ft)	20.0 m (65.6 ft)	
Video						
Video Compression		H.265; H.264; H.264B; MJPEG(only supported by sub stream)				
Smart Codec		Smart H.265+/ Smart H.264+				
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)				
Stream Capability		2 streams				
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)				

Bit Rate Control	CBR; VBR	
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps	
Day/Night	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	120 dB	
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
Gain Control	Manual/Auto	
Noise Reduction	3D NR	
Motion Detection	OFF/ON (4 areas, rectangular)	
Region of Interest(RoI)	Yes (4 areas)	
Smart Illumination	Yes	
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower.)	
Mirror	Yes	
Privacy Masking	4 areas	
Alarm		
Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception; defocus detection;	
Network		
Network	RJ-45 (10/100 Base-T)	
SDK and API	Yes	
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; truste execution; trusted upgrade	
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	
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
User/Host	20	
Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS	
Browser	IE Chrome Firefox	
Management Software	Smart PSS; DSS; DMSS	
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	-40°C to +60°C	
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)	
Protection	IP67, IK10	
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)	



LR1002-1ET/1EC

Single-port long

reach ethernet over

coax extender



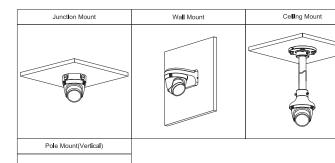
PFM900-E

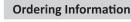
Integrated Mount

tester



PFM114 TLC SD card

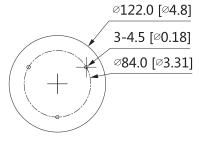




Туре	Part Number	Description
4MP Camera	DH-IPC-HDW1431T1P-ZS-2812	4MP Entry IR vari-focal Eyeball Netwok Camera,PAL
	DH-IPC-HDW1431T1P-ZS-2812	4MP Entry IR Vari-focal Eyeball Netwok Camera,NTSC
Accessories (optional)	PFA130-E	Junction Box
	PFB203W	Wall mount
	PFA106	Mount adapter
	PFB220C	Ceiling mount
	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
	PFM114	TLC SD Card

Dimensions (mm[inch])





Accessories

Optional:



PFA130-E Junction Box



PFB220C Celling Mount



PFB203W Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter



PFM321D 12V DC 1A Power Adapter

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