

DH-IPC-HDW1431T1P-A-0280B

4 MP Entry IR Fixed-focal Eyeball Network Camera



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry series network 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.

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.

Motion Detection

When moving objects appear in the monitoring image, Dahua Motion Detection technology triggers alarm or records.

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 compromising the device.

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs 4 MP (2560 × 1440) @25/30 fps, and supports max. 4 MP (2688 × 1520) @20 fps
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 40 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, audio detection and illegal access.
- · Built-in MIC.
- 12 VDC/PoE power supply.
- IP67, IK10 protection













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 work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) 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 H.265: 12 kbps–6144 kbps
Image Sensor		1/2.7" CMOS				Day/Night	Auto (ICR)/Color/B/W
Max. Resolution		2688 (H) × 1520 (V)				BLC	Yes
ROM		16 MB				HLC	Yes
RAM		128 MB				WDR	120 dB
Scanning System	Scanning System					White Balance	Auto; natural; street lamp; outdoor; manual; regional
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Gain Control	custom Auto; manual
Min. Illumination		0.01 lux@F1.6 (Color, 30 IRE), 0.003 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)				Noise Reduction	3D NR
S/N Ratio		1 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Illumination Distance		40 m (98.43 ft) (IR)				Region of Interest (RoI)	Yes (4 areas)
Illuminator On/Off Control		Auto; manual				Smart Illumination	Yes
Illuminator Number		1 (IR LED)				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower.)
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-78°).CO*			Mirror	Yes
Lens		Rotation: 0°–360°				Privacy Masking	4 areas
Lens Type		Fixed-focal				Audio	
Lens Mount		M12				Built-in MIC	Yes
Focal Length		2.8 mm; 3.6 mm				Audio Compression	G.711A; G.711Mu; G.726
-		2.8 mm: F2.0				Alarm	
Max. Aperture Field of View		3.6 mm: F2.0 2.8 mm: Horizontal: 104°; Vertical: 58°; Diagonal: 124° 3.6 mm: Horizontal: 88°; Vertical: 48°; Diagonal: 103°				Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception
Iris Control		Fixed				Network	
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft)				Network Port	RJ-45 (10/100 Base-T)
0.000 1.000 2.00		3.6 mm: 1.2 m (3.94 ft)			Idontific	SDK and API	Yes
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize 11.2 m	Identify 5.6 m		Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; trusted boot; trusted execution; trusted upgrade
DORI Distance	2.8 mm 3.6 mm	(183.73 ft) 76.0 m	(73.49 ft) 30.4 m	(36.75 ft) 15.2 m	(18.37 ft) 7.6 m	Cyber Security	
Video		(249.34 ft) (99.74 ft) (49.87 ft) (24.93 ft)				Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Video Compression		H.265; H.264; by the sub str		1B; MJPEG (Onl	y supported	Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec
Smart Codec			; Smart H.264+			User/Host	6 (Total bandwidth: 36 M)
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) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.				Storage	FTP
						Browser	IE Chrome Firefox
						Management Software	Smart PSS; DSS; DMSS
						Mobile Client	iOS; Android
Stream Capability		2 streams				Certification	
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)				Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Entry Series | DH-IPC-HDW1431T1P-A-0280B

Power

Power Supply	12 VDC/PoE (802.3af)	
Power Consumption	Basic: 1.9 W (12 VDC); 2.9 W (PoE) Max. (ICR + H.265 + IR intensity): 3.8 W (12 VDC); 5 W (PoE)	

Environment

Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤ 95%	
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Protection	IP67, IK10	

Structure

Casing	Metal + Plastic		
Product Dimensions	85.5 mm × Φ109 mm (3.37" × Φ4.29")		
Net Weight	0.25 kg (0.6 lb)		
Gross Weight	0.37 kg (0.8 lb)		

Ordering Information					
Туре	Model	Description			
IP CAMERA	DH-IPC-HDW 1431T1P-A-0280B	4 MP Entry IR Fixed-focal Eyeball Network Camera			
	PFA136	Junction Box			
	PFB203W	Wall Mount Bracket			
	PFA152-E	Pole Mount Bracket			
Accessories (optional)	PFA106	Mount Adapter			
(optional)	PFB220C	Ceiling Mount Bracket			
	PFM321D	12 VDC 1A Power Adapter			
	PFM900-E	Integrated Mount Tester			

Accessories

Optional:



PFA136 Junction Box



PFB203W Wall Mount Bracket



PFA152-E Pole Mount Bracket



PFA106 Mount Adapter



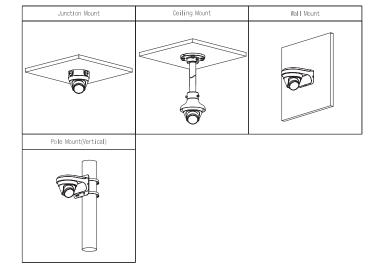
PFB220C Ceiling Mount Bracket



PFM321D 12 VDC 1A Power Adapter



PFM900-E Integrated Mount Tester



Dimensions (mm[inch])

