

DH-IPC-HDW1230T1-A-S4

2 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.

- 2-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2 MP (1920 × 1080)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, DWDR, 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 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.

Auth. Project Partner :



Technical Specification	
Camera	
Image Sensor	1/2.8" CMOS
Max. Resolution	1920 (H) × 1080 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.43 ft) (IR)
Illuminator On/Off Control	Auto; manual
Illuminator Number	1 (IR LED)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–78° Rotation: 0°–355°
Lens	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm; 3.6 mm
Max. Aperture	2.8 mm: F2.0 3.6 mm: F2.0
Field of View	2.8 mm: Horizontal: 102°; Vertical: 54°; Diagonal: 120° 3.6 mm: Horizontal: 88°; Vertical: 47°; Diagonal: 104°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.5 m (1.64 ft) 3.6 mm: 0.8 m (2.62 ft)
Lens	Detect Observe Recognize Identify
DORI Distance 2.8 mm	38.6 m 15.4 m 7.7 m 3.9 m (126.64 ft) (50.52 ft) (25.26 ft) (12.80 ft)
3.6 mm	49.7 m 19.9 m 9.9 m 5.0 m (163.06 ft) (65.29 ft) (32.48 ft) (16.40 ft)
Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Video Frame Rate	Main stream: 1920 × 1080@1–25/30 fps Sub stream: 704 × 576@1–25 fps 704 × 480@1–30 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. 2 streams
Stream Capability	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Resolution	CBR/VBR
Bit Rate Control	
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	DWDR
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto; manual
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 1080p resolution and lower) Yes
Mirror	
Privacy Masking	4 areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711A; G.711Mu; G.726
Alarm	
Alarm Event	Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; security exception
Network	
Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Configuration encryption;Trusted execution;Digest;Security logs;Trusted upgrade;WSSE;Trusted boot;Account lockout;Generation and importing of X.509 certification;Video encryption
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP ONVIF (Profile S); CGI; P2P; Genetec
Interoperability	6 (Total bandwidth: 36 M)
User/Host	FTP
Storage	IE Chrome Firefox
Browser	Smart PSS; DSS; DMSS
Management Software	iOS; Android
Mobile Client	
Certification	
Certifications	CE-LVD: EN 62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Power	
Power Supply	12 VDC/PoE (802.3af)

Auth. Project Partner :



Entry Series | DH-IPC-HDW1230T1-A-S4

Power Consumption	Basic: 1.2 W (12 VDC); 2 W (PoE) Max. (ICR + H.265 + IR intensity): 3.1 W (12 VDC); 4.1 W (PoE)
Environment	
Operating Temperature	-40 °C to +60 °C (-40 °F to +140)
Operating Humidity	°F) ≤ 95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140)
Protection	°F) IP67
Structure	
Casing	Metal + Plastic
Product Dimensions	85.5 mm × Φ109 mm (3.4" × Φ4.3")
Net Weight	0.24 kg (0.5 lb)
Gross Weight	0.37 kg (0.8 lb)

Ordering Information

Type	Model	Description
IP CAMERA	DH-IPC-HDW1230T1-A-S4	2 MP Entry IR Fixed-focal Eyeball Network Camera
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

Accessories

Optional:



PFA136
Junction Box



PFB203W
Wall Mount Bracket



PFA152-E
Pole Mount Bracket



PFA106
Mount Adapter



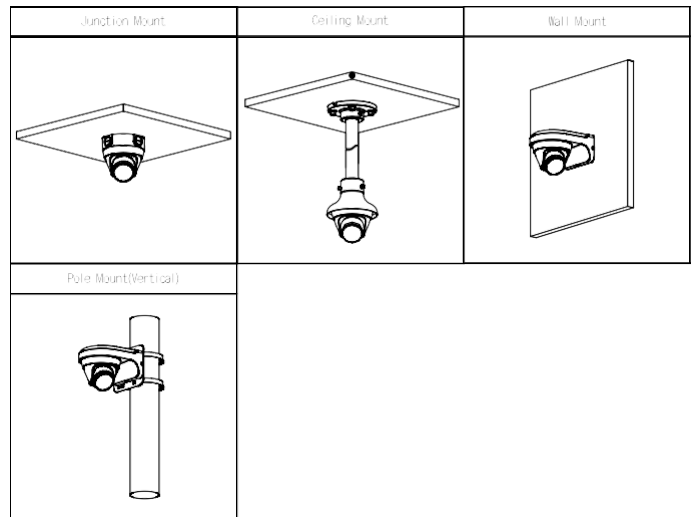
PFB220C
Ceiling Mount Bracket



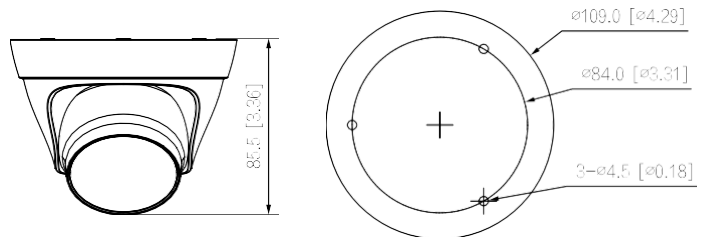
PFM321D
12 VDC 1A Power Adapter



PFM900-E
Integrated Mount Tester



Dimensions (mm[inch])



Auth. Project Partner :



Solutions Design | Supply | Installations | AMC | Services

TECHNOHEAD Security IT & Telecom Projects LLP

Address :- 706 Siddharth Building 96, Nehru Place, New Delhi – 110019, India

Mobile :- +91 8527590286, 9312286189

Email :- info@technohead.in Website : www.technohead.in