DH-IPC-HDW1330T1-S4
3MP Entry IR Fixed Focal Eyeball Network Camera

- 3MP, 1/2.7" CMOS image sensor, low illuminance, high definition image
- Outputs max. 3MP (2304 × 1296)@20 fps, 2MP (1920 × 1080)@25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, and the max. IR distance is 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various band width and storage environments
- Rotation mode, DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Network disconnection, IP conflict, motion detection, video tampering, illegal access, security exception
- 12V DC/PoE power supply
- IP67 protection

3Mp	Smart Codec	Motion Detection	Smart Illumination	IP67

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.

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

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.

Image Flip
For narrow and long scenes, Dahua image flip technology flips the image by 90°/180°/270° to realize better surveillance in rotation mode.

Cyber Security
Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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

Camera

Image Sensor	1/2.7" CMOS
Max. Resolution	2304 (H) × 1296 (V)
ROM	16 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.02 Lux@F2.0
S/N Ratio	> 56 dB
Illumination Distance	30 m (98.4ft)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 (IR LED)
Pan/Tilt/Rotation Range	Horizontal: 0°–355° Vertical: 0°–78° Rotation: 0°–360°

Lens

Lens Type	Fixed
Lens Mount	M12
Focal Length	2.8 mm 3.6 mm
Max. Aperture	F2.0
Field of View	2.8 mm: Horizontal: 105° Vertical: 57° Diagonal: 125° 3.6 mm: Horizontal: 88° Vertical: 47° Diagonal: 105°
Iris Control	Fixed
Close Focus Distance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 0.9 m (3.0 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	44.8 m (147.0 ft)	17.9 m (58.7 ft)	9.0 m (29.5 ft)	4.48 m (14.8 ft)
	3.6 mm	57.6 m (189.0 ft)	23.0 m (75.5 ft)	11.5 m (37.7 ft)	5.8 m (19.0 ft)

Video

Video Compression	H.265; H.264; H.264B; MJPEG (only supported by the sub stream)
Smart Codec	Smart H.265+/Smart H.264+
Video Frame Rate	Main Stream: 2304 × 1296 (1 fps–20 fps) 1920 × 1080 (1 fps–25/30 fps) Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
Stream Capability	2 streams
Resolution	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	PAL: H.264: 32 kbps–6144 kbps H.265: 12 kbps–7168 kbps NTSC: H.264: 32 kbps–6144 kbps H.265: 12 kbps–7424 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 2304 × 1296 resolution and lower)
Mirror	Yes
Privacy Masking	4 areas

Alarm

Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; security exception

Network

Network Port	RJ-45 (10/100 Base-T)
SDK and API	Yes
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs;generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Genetec; milestone
User/Host	6
Storage	FTP
Browser	IE: IE11 and earlier Chrome: Chrome 8+ and earlier Firefox: Firefox 80.0 (64 bit)
Management Software	Smart PSS; DSS; DMSS
Mobile Client	IOS; Android

Certifications

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B

Power

Power Supply	12V DC/PoE (802.3af)

Power Consumption	Basic power consumption: 1.8W (12V DC); 2.6W (PoE) Max. power consumption (H.265 + IR LED + WDR): 3.8W (12V DC); 4.8W (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

Structure

Casing	Core: Metal + Plastic Cover: Plastic Pedestal: 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	Part Number	Description
3MP Camera	DH-IPC-HDW1330T1P-S4	3MP Entry IR Fixed Focal Eyeball Network Camera,PAL
	DH-IPC-HDW1330T1N-S4	3MP Entry IR Fixed Focal Eyeball Network Camera,NTSC
Accessories	PFA136	Junction Box
	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

Accessories

Optional:

PFA136
Junction Box

PFA130-E
Junction Box

PFB203W
Wall Mount

PFA106
Mount Adapter

PFB220C
Ceiling Mount

PFA152-E
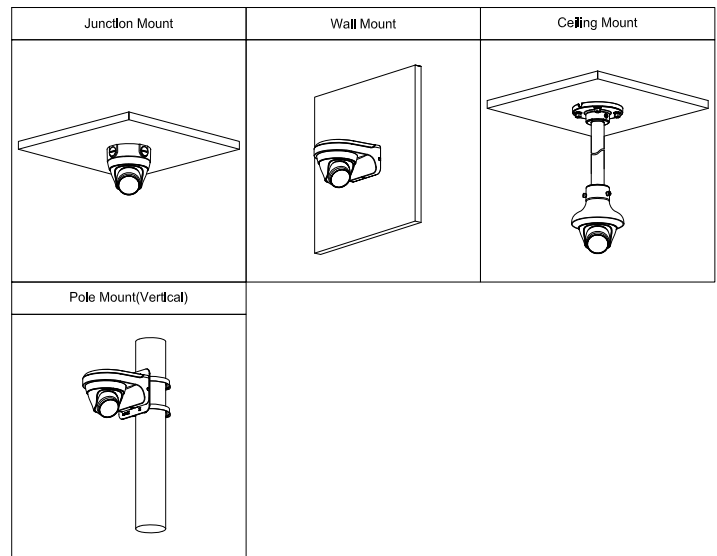Pole Mount

PFM321D
12V DC 1A Power Adapter

LR1002-1ET/1EC
Single-port Long Reach Ethernet over CoaxExtender

PFM900-E
Integrated Mount Tester

Junction Mount

Wall Mount

Ceiling Mount

Pole Mount(Vertical)

Dimensions (mm[inch])

85.5 [3.36]

⌀109.0 [⌀4.29]

⌀84.0 [⌀3.31]

3-⌀4.5 [⌀0.18]