

DH-IPC-HDW1230T1-S4

2MP Entry IR Fixed-Focal Eyeball Network Camera



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



System 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+ & 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 technology triggers alarm or records.

Smart IR

Dahua Smart IR technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts IR LEDs 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°/270° to realize better surveillance in rotation mode.

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 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.

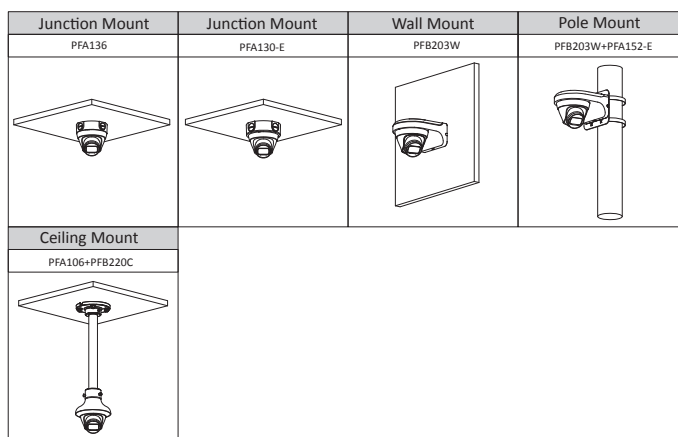
Technical Specification					
Camera					
Image Sensor	1/2.7" 2Megapixel progressive CMOS				
Effective Pixels	1920 (H) × 1080 (V)				
ROM	16 MB				
RAM	64 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s				
Min. Illumination	0.01 Lux @F2.0				
IR Distance	30 m (98.4 ft)				
IR On/Off Control	Auto/Manual				
IR LEDs Number	1				
Pan/Tilt/Rotation Range	Horizontal: 0°–355° Vertical: 0°–78° Rotation: 0°–360°				
Lens					
Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8 mm 3.6 mm				
Max. Aperture	F2.0 F2.0				
Field of View	2.8 mm: Horizontal: 105° Vertical: 57° Diagonal: 125° 3.6 mm: Horizontal: 87° Vertical: 47° Diagonal: 104°				
Iris Type	Fixed aperture				
Close Focus Distance	0.5 m (1.6 ft) 0.9 m (3.0 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	37.3 m (122.4 ft)	14.9 m (48.9 ft)	7.5 m (24.6 ft)	3.7 m (12.1 ft)
	3.6 mm	53.3 m (174.9 ft)	21.3 m (69.9 ft)	10.7 m (35.1 ft)	5.3 m (17.4 ft)
Video					
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG				
Smart Codec	Yes				
Video Frame Rate	Main Stream: 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	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–6400 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	Manual/Auto				
Noise Reduction	3D DNR				
Motion Detection	OFF/ON (4 areas, rectangular)				
Region of Interest(Roi)	Yes (4 areas)				
Smart IR	Yes				
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution.)				
Mirror	Yes				
Privacy Masking	4 areas				
Network					
Network	RJ-45 (10/100 Base-T)				
Protocol	IPv4; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast				
Interoperability	ONVIF (Profile S); CGI; P2P; Genetec				
User/Host	20				
Edge Storage	FTP; Dahua Cloud				
Browser	IE Chrome Firefox				
Management Software	Smart PSS; DSS; DMSS				
Mobile Phone	IOS; Android				
Certification					
Certifications	CE-LVD: EN60950-1 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	<4.3 W				
Environment					
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%				
Storage Temperature	-40°C to +60°C (-40°F to +140°F)				
Ingress Protection	IP67				

Structure

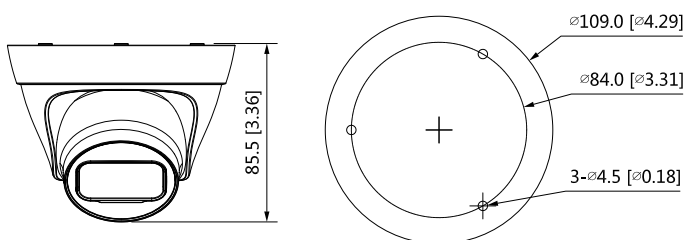
Casing	Metal + plastic
Dimensions	85.5 mm × Φ109 mm (3.4" × Φ4.3")
Net Weight	0.24 kg (0.5 lb)
Gross Weight	0.37 kg (0.8 lb)

Ordering Information

Type	Part Number	Description
2MP Camera	DH-IPC-HDW1230T1P-S4	2MP Entry IR Fixed Focal Eyeball Netwok Camera,PAL
	DH-IPC-HDW1230T1N-S4	2MP Entry IR Fixed Focal Eyeball Netwok Camera,NTSC
Accessories (optional)	PFA136	Junction Box
	PFA130-E	Junction Box
	PFB203W	Wall Mount
	PFA106	Mount Adapter
	PFB220C	Celling Mount
	PFA152-E	Pole Mount
	PFM321D	DC12V1A Power Adapter
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender
	PFM900-E	Integrated Mount Tester



Dimensions (mm[inch])



Optional:



PFA136
Junction Box



PFA130-E
Junction Box



PFB203W
Wall Mount



PFA106
Mount Adapter



PFB220C
Celling Mount



PFA152-E
Pole Mount



PFM321D
DC12V1A Power
Adapter



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



PFM900-E
Integrated Mount
Tester