

DH-IPC-HFW1230T1-ZS-S4

2MP Entry IR Vari-focal Bullet 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.

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.

- 2MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 2MP (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 50 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, privacy masking, no SD card, SD card full, SD card error, network disconnection, IP conflict, and illegal access.
- · Supports max. 256 GB SD card.
- 12V DC/PoE power supply.
- IP67 protection.











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 $1\,\mathrm{m}$ 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.

Technical Specification							BLC	Yes
Camera							HLC	Yes
Image Sensor		1/2.8" CMOS					WDR	DWDR
Max. Resolution		1920 (H) × 1080 (V)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
ROM		16 MB					Gain Control	Auto; manual
RAM		128 MB					Noise Reduction	3D NR
Scanning System		Progressive					Motion Detection	OFF/ON (4 areas, rectangular)
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s					Region of Interest (RoI)	Yes (4 areas)
Min. Illumination		0.008 Lux@F1.7 (Color, 30 IRE) 0.0008 Lux@F1.7 (B/W, 30 IRE) 0 Lux (Illuminator on)					Smart Illumination	Yes
S/N Ratio		> 56 dB					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Illumination Distance		50 m (164.04 ft) (IR)					Mirror	Yes
Illuminator On/Off Control		Auto; Manual					Privacy Masking	4 areas
Illuminator Number		2 (IR)					Alarm	
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; security exception; defocus detection
Lens							Network	
Lens Type		Motorized vari-focal					Network Port	RJ-45 (10/100 Base-T)
Lens Mount		ф14					SDK and API	Yes
Focal Length		2.8 mm-12 mm					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
Max. Aperture		F1.7 Horizontal: 101°–33.5°; Vertical: 52.5°–19°;						
Field of View Iris Control		Diagonal: 125°–38.5° Fixed					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; DDNS
Close Focus Distance		1.2 m (3.94 ft)					Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
0.050 1.0005	Lens	Detect		Recognize	Identify		User/Host	6
DORI Distance		48 m	19 m	10 m	5m		Storage	FTP; Micro SD card (Support max. 256 G)
	W T	(157.48 ft) 131 m (429.79 ft)	(62.34 ft) 52 m (170.60 ft)	(32.81 ft) 26 m (85.30 ft)	(16.40 ft) 13m (42.65 ft)		Browser	IE Chrome Firefox
Video	Video		(423.7311) (170.0011) (83.3011) (42.0311)				Management Software	Smart PSS; DSS; DMSS
Video Compression		H.265; H.264; H.264B; MJPEG (Only supported by the					Mobile Client	IOS; Android
Smart Codec		sub stream) Smart H.265+; Smart H.264+					Certification	
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.					Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Stream Capability		2 streams					Power	
		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280					Power Supply	12V DC/PoE (802.3af)
Resolution		× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Power Consumption	Basic: 1.6W (12 V DC); 2.3W (PoE) Max. (H.265 + ICR + IR intensity): 4.3 W (12V DC); 5.5 W
Bit Rate Control		CBR/VBR					Environment	(PoE)
Video Bit Rate		H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps					Environment	20.80+
Day/Nilaki		A. t- //CD) /C- /D /A/					Operating Temperature	−30 °C to +60 °C (−22 °F to 140 °F)

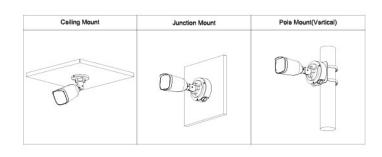
Auto(ICR)/Color/B/W

Day/Night

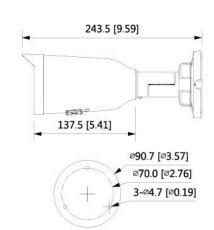
Entry | DH-IPC-HFW1230T1-ZS-S4

Operating Humidity	≤95%		
Protection	IP67		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Structure			
Casing	Metal + plastic		
Product Dimensions	243.5 mm × Ø90.7 mm (9.59" × Ø3.57")		
Net Weight	0.43 kg (0.95 lb)		
Gross Weight	0.68 kg (1.50 lb)		

Ordering Information							
Туре	Model	Description					
2MP Camera	DH-IPC-HFW1230T1-ZS-S4	2MP Entry IR Vari-focal Dome Netwok Camera					
	PFA13G	Junction Mount Bracket					
	PFA13G+PFA152-E	Pole Mount Bracket					
Accessories	PFM321D	12V DC 1A Power Adapter					
(Optional)	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:



PFA13G Junction Mount Bracket



PFA13G+PFA152-E Pole Mount Bracket



PFM321D DC 12V 1A Power Adapter



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



PFM900-E Integrated Mount Tester



PFM114 TLC SD Card