

IPC-HFW1230TC1-SA

2MP Entry IR Fixed-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.

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.

SMD

Dahua intelligent algorithms extract moving human and vehicle targets fromvideos and filters out alarms that are triggered by non-human or non-vehicle targets to increase the accuracy and effectiveness of alarms.

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.
- DWDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict and illegal access
- · Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- · IP67 protection.
- · Supports human and vehicle detection.













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							Smart Codec	Smart H.265+; Smart H.264+
Camera								Main stream: 1920× 1080@(1–25/30 fps)
Image Sensor		1/2.8" CMOS					Video Frame Rate	sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)
Max. Resolution		1920 (H) × 1080 (V)						*The values above are the max. frame rates of each stream; for multiple streams, the values will be
ROM		128 MB					Stream Capability	subjected to the total encoding capacity. 2 streams
RAM		128 MB					этеатт саравшту	
Scanning System		Progressive					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						(352 × 288/352 × 240)
Min. Illumination		0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					Bit Rate Control Video Bit Rate	VBR;CBR H.264: 32 kbps–4096 kbps; H.265: 12 kbps–4096 kbps
S/N Ratio		>56 dB					Day/Night	Auto(ICR)/Color/B/W
Illumination Distance		Up to 30 m (98.43 ft) (IR)					BLC	Yes
Illuminator On/Off Control		Auto;Manual					HLC	Yes
Illuminator No	umber	1 (IR LED)					WDR	DWDR
Angle Adjustment		Pan: 0° to 360° Tilt: 0° to 90°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Long		Rotation: 0° to 360°					Gain Control	Auto/Manual
Lens Type		Fixed facel					Noise Reduction	3D NR
Lens Type		Fixed-focal					Motion Detection	OFF/ON (4 areas, rectangular)
Lens Mount		M12					Region of Interest (RoI)	Yes (4 areas)
Focal Length		2.8 mm; 3.6 mm					Smart Illumination	Yes
Max. Aperture Field of View		F2.0 2.8 mm: H: 98°; V: 53°; D: 118° 2.6 mm: H: 96°; V: 43°; D: 103°					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)
Inia Cantus I		3.6 mm: H: 86°; V: 47°; D: 103° Fixed					Mirror	Yes
Iris Control							Privacy Masking	4 areas
Close Focus Distance		2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 0.9 m (2.95 ft)					Audio	
	Lens	Detect	Observe	Recognize	Identify		Built-in MIC	Yes, built-in Mic
	2.8 mm	46.9 m	18.8 m	9.4 m	4.7 m		Audio Compression	G.711a; G.711Mu; PCM; G.726
		(153.87 ft)	(61.68 ft)	(30.8 ft)	(15.42 ft)		Alarm	
DORI Distance	3.6 mm 52.4 m (171.92 ft) (68.90 ft) 10.5 m (17.06 ft) *DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the						Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (Human and Vehicle)
		nguish persons in this table do					Network	
	The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation						Network Port	RJ-45 (10/100 Base-T)
		ioning manual/project design tool.					SDK and API	Yes
Intelligence Human and Vehicle Detection		Support the classification and accurate detection of human and vehicle					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to					Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI
		event videos					User/Host	6 (Total bandwidth: 24 M)
Video							Storage	FTP; Micro SD card (support max. 256 GB)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Browser	IE; Chrome; Firefox

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Management Software	Smart PSS Lite; DSS; DMSS; DoLynk Care		
Mobile Client	iOS;Android		
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		
Certification			
Certifications	CE-LVD: EN62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU		
Power			
Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 1.5 W (12 VDC); 2.1 W (PoE) Max.: 3.2 W (12 VDC); 4.0 W (PoE) (H.265 + intelligence on + IR intensity)		
Environment			
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)		
Storage Humidity	≤95% (RH), non-condensing		
Protection	IP67		
Structure			
Casing Material	Metal + plastic		
Product Dimensions	180.4 mm × 70 mm × 70 mm (7.10" × 2.76" × 2.76") (L × W × H)		
Net Weight	0.31 kg (0.68 lb)		
Gross Weight	0.42 kg (0.93 lb)		

Ordering Information						
Туре	Model	Description				
IP CAMERA	DH-IPC-HFW1230TC1-SA	2MP Entry IR Fixed-focal Bullet Network Camera				
	G3416GW	G3/4" Water Joint				
	DH-PFA151	Corner Mount Bracket				
	DH-PFA130-E	Water-proof Junction Box				
	DH-PFA152-E	Pole Mount Bracket				
Accessories (Optional)	DH-PFA134	Junction Box				
Accessories (Optional)	DH-PFM321-EN	DC12V1A power adapter				
	DH-PFM321D-EN	DC12V 1A power adapter				
	DH-PFM320D-EN	DC12V2A power adapter				
	PFM900-E	Integrated Mount Tester				
	DHI-TF-P100/256GB	MicroSD Card				

Accessories

Optional:







G3416GW G3/4" Water Joint

DH-PFA151 Corner Mount Bracket

DH-PFA130-E Water-proof Junction Box







DH-PFA152-E Pole Mount Bracket

DH-PFA134 Junction Box

DH-PFM321-EN DC12V1A power adapter







DH-PFM321D-EN

DH-PFM320D-EN DC12V 1A power adapter DC12V2A power adapter

PFM900-E Integrated Mount Tester



DHI-TF-P100/256GB MicroSD Card

Ceiling Mount	Wall Mount	Pole Mount(Vertical)
140.51		

Dimensions (mm[inch])

