

DH-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 from videos 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 ±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						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.																
Image Sensor	1/2.8" CMOS					Stream Capability	2 streams																
Max. Resolution	1920 (H) × 1080 (V)					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)																
ROM	128 MB					Bit Rate Control	VBR;CBR																
RAM	128 MB					Video Bit Rate	H.264: 32 kbps~4096 kbps; H.265: 12 kbps~4096 kbps																
Scanning System	Progressive					Day/Night	Auto(ICR)/Color/B/W																
Electronic Shutter Speed	Auto/Manual 1/3 s~1/100,000 s					BLC	Yes																
Min. Illumination	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					HLC	Yes																
S/N Ratio	>56 dB					WDR	DWDR																
Illumination Distance	Up to 30 m (98.43 ft) (IR)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom																
Illuminator On/Off Control	Auto;Manual					Gain Control	Auto/Manual																
Illuminator Number	1 (IR LED)					Noise Reduction	3D NR																
Angle Adjustment	Pan: 0° to 360° Tilt: 0° to 90° Rotation: 0° to 360°					Motion Detection	OFF/ON (4 areas, rectangular)																
Lens						Region of Interest (RoI)	Yes (4 areas)																
Lens Type	Fixed-focal					Smart Illumination	Yes																
Lens Mount	M12					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower)																
Focal Length	2.8 mm; 3.6 mm					Mirror	Yes																
Max. Aperture	F2.0					Privacy Masking	4 areas																
Field of View	2.8 mm: H: 98°; V: 53°; D: 118° 3.6 mm: H: 86°; V: 47°; D: 103°					Audio																	
Iris Control	Fixed					Built-in MIC	Yes, built-in Mic																
Close Focus Distance	2.8 mm: 0.7 m (2.30 ft) 3.6 mm: 0.9 m (2.95 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726																
DORI Distance	<table border="1"> <tr> <td>Lens</td> <td>Detect</td> <td>Observe</td> <td>Recognize</td> <td>Identify</td> <td></td> </tr> <tr> <td>2.8 mm</td> <td>46.9 m (153.87 ft)</td> <td>18.8 m (61.68 ft)</td> <td>9.4 m (30.8 ft)</td> <td>4.7 m (15.42 ft)</td> <td></td> </tr> <tr> <td>3.6 mm</td> <td>52.4 m (171.92 ft)</td> <td>21.0 m (68.90 ft)</td> <td>10.5 m (34.45 ft)</td> <td>5.2 m (17.06 ft)</td> <td></td> </tr> </table> <p>*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.</p>	Lens	Detect	Observe	Recognize	Identify		2.8 mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.8 ft)	4.7 m (15.42 ft)		3.6 mm	52.4 m (171.92 ft)	21.0 m (68.90 ft)	10.5 m (34.45 ft)	5.2 m (17.06 ft)					
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Intelligence						Alarm																	
Human and Vehicle Detection	Support the classification and accurate detection of human and vehicle					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)																
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network																	
Video						Network Port	RJ-45 (10/100 Base-T)																
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					SDK and API	Yes																
						Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P; Auto Registration																
						Interoperability	ONVIF (Profile S & Profile G & Profile T); CGI																
						User/Host	6 (Total bandwidth: 24 M)																
						Storage	FTP; Micro SD card (support max. 256 GB)																
						Browser	IE; Chrome; Firefox																

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

Type	Model	Description
Accessories (Optional)	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
	DH-PFA134	Junction Box
	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
DC12V 1A power adapter



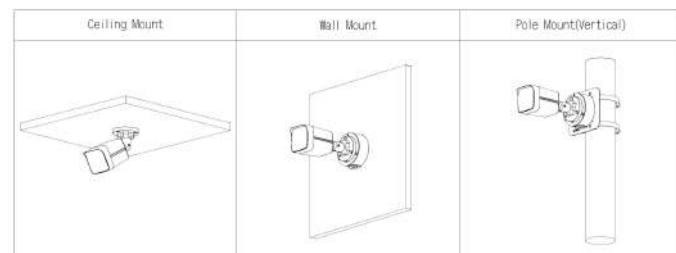
DH-PFM320D-EN
DC12V2A power adapter



PFM900-E
Integrated Mount Tester



DHI-TF-P100/256GB
MicroSD Card



Dimensions (mm[inch])

