

DH-IPC-HFW2231T-VFS

2MP Entry IR Vari-focal Bullet Netwok 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, IK10.



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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Entry | DH-IPC-HFW2231T-VFS

Technical Specification

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Camera					
Image Sensor		1/2.8" CMOS			
Max. Resolution		1920 (H) × 1080 (V)			
ROM		16 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.008 Lux@F1.7 (Color, 30 IRE) 0.0008 Lux@F1.7 (B/W, 30 IRE) 0 Lux (Illuminator on)			
S/N Ratio		> 56 dB			
Illumination Distance		50 m (164.04 ft) (IR)			
Illuminator On/Off Control		Auto; Manual			
Illuminator Number		2 (IR)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Motorized vari-focal			
Lens Mount		ф14			
Focal Length		2.8 mm-12 mm			
Max. Aperture		F1.7			
Field of View		Horizontal: 101°–33.5°; Vertical: 52.5°–19°; Diagonal: 125°–38.5°			
Iris Control		Fixed			
Close Focus Distance		0.8 m (2.6 lb)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	48 m (157.48 ft)	19 m (62.34 ft)	10 m (32.81 ft)	5m (16.40 ft)
	т	131 m (429.79 ft)	52 m (170.60 ft)	26 m (85.30 ft)	13m (42.65 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: 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.			

2 streams

CBR/VBR

(352 × 288/352 × 240)

H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps

Auto(ICR)/Color/B/W

1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF

Stream Capability

Resolution

Bit Rate Control

Video Bit Rate

Day/Night

WDRWhite BalanceGain ControlNoise ReductionMotion DetectionRegion of Interest (Rol)Smart IlluminationImage RotationMirror	Yes DWDR Auto; natural; street lamp; outdoor; manual; regional custom Auto; manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
White BalanceGain ControlNoise ReductionMotion DetectionRegion of Interest (Rol)Smart IlluminationImage RotationMirror	Auto; natural; street lamp; outdoor; manual; regional custom Auto; manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
White Balance Gain Control Noise Reduction Motion Detection Region of Interest (Rol) Smart Illumination Image Rotation Mirror	custom Auto; manual 3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
Noise Reduction Motion Detection Region of Interest (Rol) Smart Illumination Image Rotation Mirror	3D NR OFF/ON (4 areas, rectangular) Yes (4 areas) Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
Motion Detection Region of Interest (RoI) Smart Illumination Image Rotation Mirror	OFF/ON (4 areas, rectangular) Yes (4 areas) Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
Region of Interest (RoI) Smart Illumination Image Rotation Mirror	Yes (4 areas) Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
Smart Illumination	Yes 0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
Image Rotation Mirror	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower) Yes			
Mirror	resolution and lower) Yes			
Privacy Masking	4 areas			
Alarm				
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			
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			
	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast; DDNS			
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone			
User/Host	6			
Storage	FTP; Micro SD card (Support max. 256 G)			
Browser	IE Chrome Firefox			
Management Software	Smart PSS; DSS; DMSS			
Mobile Client	IOS; Android			
Certification				
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: 1.8W (12 V DC); 2.3W (PoE) Max. (H.265 + ICR + IR intensity): 4.3 W (12V DC); 5.5 W (PoE)			

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Environment

Operating Temperature	-30 °C to +60 °C (-22 °F to 140 °F)			
Operating Humidity	≤95%			
Storage Temperature	NA			
Protection	IP67,IK10			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
Structure				
Casing	Metal			
Product Dimensions	244.1 mm × Ø90.4 mm (9.61" × Ø3.56")			
Net Weight	0.86 kg (1.90 lb)			
Gross Weight	1.12 kg (2.47 lb)			

Description

Netwok Camera

2MP Entry IR Vari-focal Dome

Single-port Long Reach Ethernet over

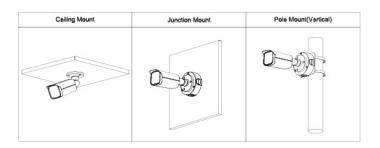
Junction Mount Bracket

Integrated Mount Tester

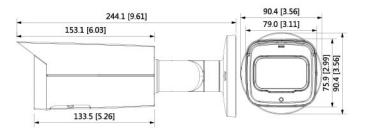
Pole Mount Bracket 12V DC 1A Power Adapter

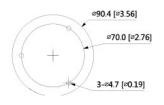
Coax Extender

TLC SD Card



Dimensions (mm[inch])





Accessories

Ordering Information

Model

PFA130-E

PFM321D

PFM900-E

PFM114

LR1002-1ET/1EC

DH-IPC-HFW2231T-VFS

PFA130-E+PFA152-E

Туре

2MP

Camera

Accessories (Optional)

Optional:



PFA130-E Junction Mount Bracket



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



PFA130-E+PFA152-E Pole Mount Bracket

PFM900-E

Integrated Mount Tester





PFM114 TLC SD Card

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