

DH-IPC-HFW1230DS-SAW

2MP IR Fixed-focal Wi-Fi 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 technology triggers alarm or records.

Day/Night

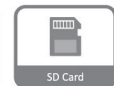
Dahua Day/Night function provides color image when illumination is adequate; when illuminance is inadequate, it switches night mode and provides white and black image. It can guarantee that the network camera can work normally when illuminance changes.

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

- 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.
- SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- DWDR, 3D NR, BLC, digital watermarking, applicable to various monitoring scenes.
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access.
- Supports antenna 2.4G Wi-Fi, up to 80m range in open area.
- Supports max. 256 G Micro SD card. Built-in MIC.
- 12 VDC power supply.
- IP67 protection.



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.

Technical Specification						
Camera						
Image Sensor		1/2.8" CMOS				
Max. Resolution		1920 (H) × 1080 (V)				
ROM		16 MB				
RAM		64 MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				
Min. Illumination		0.025 lux@F2.0 (Color, 30 IRE) 0.0025 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)				
S/N Ratio		>56 dB				
Illumination Distance		30 m (98.43 ft) (IR LED)				
Illuminator On/Off Control		Auto; manual				
Illuminator Number		1 (IR LED)				
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°				
Lens						
Lens Type		Fixed-focal				
Lens Mount		M12				
Focal Length		2.8 mm; 3.6 mm				
Max. Aperture		F2.0				
Field of View		2.8 mm: Horizontal: 100°; Vertical: 53°; Diagonal: 120° 3.6 mm: Horizontal: 86°; Vertical: 43°; Diagonal: 102°				
Iris Control		Fixed				
Close Focus Distance		2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8 mm	46.9 m (153.87 ft)	18.8 m (61.68 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)	
	3.6 mm	58.8 m (192.91 ft)	23.5 m (77.10 ft)	11.8 m (38.71 ft)	5.9 m (19.36 ft)	
Video						
Video Compression		H.264B; H.264; H.264H; H.265				
Smart Codec		Smart H.265+; Smart H.264+				
Video Frame Rate		Main stream: 1920 × 1080 (1–25/30 fps) Sub stream: 640 × 480@(1–25 fps) 640 × 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.				
Stream Capability		2 streams				
Resolution		1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720)				

Bit Rate Control		CBR/VBR
Video Bit Rate		H264: 24 kbps–4096 kbps H265: 9 kbps–4096 kbps
Day/Night		Auto (ICR)/Color/B/W
BLC		Yes
WDR		DWDR
White Balance		Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control		Auto
Noise Reduction		3D NR
Motion Detection		OFF/ON (4 areas, rectangular)
Region of Interest (RoI)		Yes (4 areas)
Smart Illumination		Yes
Image Rotation		0°/180°
Mirror		Yes
Audio		
Built-in MIC		Yes
Alarm		
Alarm Event		No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering;audio detection; intensity change
Network		
Network Port		RJ-45 (10/100 Base-T)
Wi-Fi		IEEE802.11b/g/n 2.4–2.4835 GHz; 2.4 G; EIRP≤20dBm(CE); output power≤30dBm(FCC)
Wireless Range		Up to 80 m (The performance varies based on actual environment)
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
Network Protocol		IPv4; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; DHCP; DNS; NTP; Multicast; RTMP
Interoperability		ONVIF (Profile S/Profile G); CGI; P2P
User/Host		6 (Total bandwidth: 36 M)
Storage		Micro SD card (support max. 256 GB, sold separately)
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; CE-RED: Radio Equipment Directive 2014/53/EU; FCC: 47 CFR FCC Part 15, Subpart B; FCC ID: FCC PART 15C

Power	
Power Supply	12 VDC
Power Consumption	Basic: 2 W (12 VDC) Max. (H.265+IR intensity): 4.1 W (12 VDC)
Environment	
Operating Temperature	−40 °C to +60 °C (−40 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	−30 °C to +70 °C (−22 °F to +158 °F)
Protection	IP67
Structure	
Casing	Metal
Product Dimensions	166.2 mm × 70.0 mm × 128.6 mm (6.53" × 2.76" × 5.06")
Net Weight	477.9 g (1.05 lb)
Gross Weight	696.5 g (1.50 lb)

Ordering Information		
Type	Model	Description
2MP Camera	DH-IPC-HFW1230DSP-SAW-0280B	2MP IR Fixed-focal Wi-Fi Bullet Network Camera
	DH-IPC-HFW1230DSP-SAW-0360B	2MP IR Fixed-focal Wi-Fi Bullet Network Camera
	DH-IPC-HFW1230DSN-SAW-0280B	2MP IR Fixed-focal Wi-Fi Bullet Network Camera
	DH-IPC-HFW1230DSN-SAW-0360B	2MP IR Fixed-focal Wi-Fi Bullet Network Camera
Accessories	NBS05C120050VE	12V DC/0.5A Power Adapter
	PFA134	Junction Box
	PFA152-E	Pole Mount
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Included:



NBS05C120050VE
12V DC/0.5A
Power Adapter

Optional:



PFA134
Junction Box



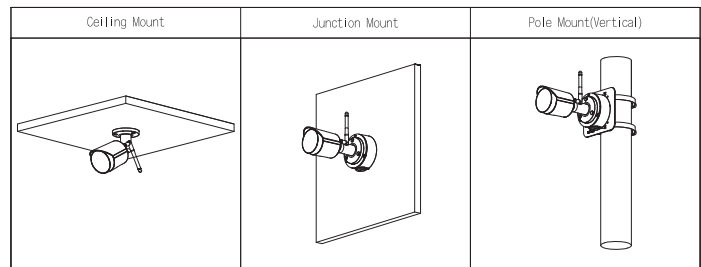
PFA152-E
Pole Mount



PFM900-E
Integrated
Mount Tester



TF-P100
MicroSD
Memory Card



Dimensions (mm[inch])

