

# 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				
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



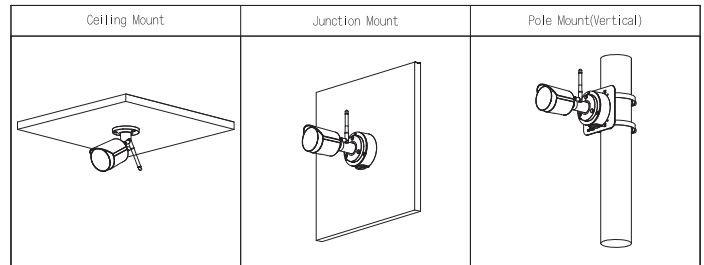
PFA152-E  
Pole Mount



PFM900-E  
Integrated  
Mount Tester



TF-P100  
MicroSD  
Memory Card



Dimensions (mm[inch])

