

# DH-IPC-HFW1430DS1-SAW

## 4MP IR Fixed-focal Wi-Fi Bullet Network Camera



### System 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.

- 4-MP 1/3" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@20 fps, and max. supports 3 MP (2304 × 1296)@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.
- The antenna offers 2.4G Wi-Fi with a range of 80 m.
- Supports max. 256 G Micro SD card. Built-in MIC.
- 12 VDC power supply.
- IP67 protection.



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

### Technical Specification

#### Camera

Image Sensor	1/3" CMOS
Max. Resolution	2560 (H) × 1440 (V)
ROM	16 MB
RAM	64 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.03 lux@F2.0 (Color, 30 IRE) 0.003 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: H: 90°; V: 50°; D: 107° 3.6 mm: H: 76°; V: 40°; D: 92°				
Iris Control	Fixed				
Close Focus Distance	2.8mm: 1.0 m (3.28 ft) 3.6mm: 1.4 m (4.59 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	68 m (223.10 ft)	27.2 m (89.24 ft)	13.6 m (44.62 ft)	6.8 m (22.31 ft)
	3.6 mm	85.2 m (279.53 ft)	34.1 m (111.88 ft)	17.0 m (55.77 ft)	8.5 m (27.89 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: 2560 × 1440 (1–20fps) 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	2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M(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 (Rol)	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/180°
Mirror	Yes

#### Audio

Built-in MIC	Yes
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#### 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
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#### Network

Network Port	RJ-45 (10/100 Base-T)
Wi-Fi	IEEE802.11b/g/n 2.4000–2.4835 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
Security	Digest; WSSE; Account lockout; Security logs; Generator and importing of X.509 certfcaton; HTTPS; Trusted boot; Trusted executon; 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
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Power

Power Supply	12 VDC
Power Consumption	Basic: 2 W (12 VDC) Max. (H.265 + IR intensity): 4.3 W (12 VDC)

Environment

Operating Temperature	-30 °C to +55 °C (-22 °F to +131 °F)
Operating Humidity	≤95%
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Protection	IP67

Structure

Casing	Front cover: Metal Rear: Plastic Bracket: Plastic
Product Dimensions	169.1 mm × 85.7 mm × 117.7 mm (6.66" × 3.37" × 4.63")
Net Weight	240.5 g (0.53 lb)
Gross Weight	362.0 g (0.80 lb)

Ordering Information

Type	Model	Description
4MP Camera	DH-IPC-HFW1430DS1P-SAW-0280B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	DH-IPC-HFW1430DS1P-SAW-0360B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	DH-IPC-HFW1430DS1N-SAW-0280B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	DH-IPC-HFW1430DS1N-SAW-0360B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	IPC-HFW1430DS1P-SAW-0280B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	IPC-HFW1430DS1P-SAW-0360B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	IPC-HFW1430DS1N-SAW-0280B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
	IPC-HFW1430DS1N-SAW-0360B	4MP IR Fixed-focal Wi-Fi Bullet Network Camera
Accessories (Optional)	PFA134	Junction Box
	PFA152-E	Pole Mount
	NBS05C120050VE	12V DC/0.5A Power Adapter
	PFM900-E	Integrated Mount Tester
	TF-P100	MicroSD Memory Card

Accessories

Optional:



PFA134 Junction Box



PFA152-E Pole Mount



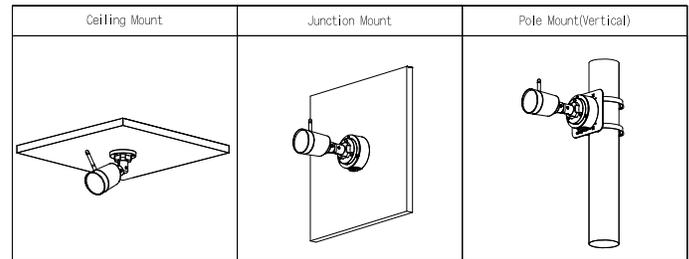
NBS05C120050VE 12V DC/0.5A Power Adapter



PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])

