

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 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.

- \cdot 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.
- \cdot 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, SMD (human).
- · 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 Video Bit Rate Control Cak/VSR Video Bit Rate 1/2.8° CMO5 Day/Night Auto (ICR)/Color/B/W BLC Ves WDR DWDR DWDR Auto, natural, street lamp, outdoor; regional custom regional custom Scanning System Progressive Flectronic Shutter Speed Auto, Manual 1/3 s - 1/100,000 s O.025 lux@P5.20 (Color, 30 IRE) 0.0025 lux@P5.20 (Eolor, 30 IRE) 0.0035 lux@P5.2	manual;
Image Sensor	manual;
Max. Resolution 1920 (H) x 1080 (V) BLC Yes ROM	manual;
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 (Solor, 30 IRE) 0.00025 Lu	manual;
WOR WOR Work Wo	manual;
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 (Golor, 30 IRE) 0.0025 lux@F2.0 (Golo	manual;
Electronic Shutter Speed Auto/Manual 1/3 s-1/100,000 s Moise Reduction 3D NR	
Min. Illumination O.025 lux@F2.0 (Color, 30 IRE) O.0025 lux@F2.0 (EyNy, 30 IRE) O lux (Illuminator on) S/N Ratio >56 dB S/S attio >56 dB Smart Illumination Smart Illumination Filt or 30 m (98.43 ft) (IR LED) Mirror Yes Mirror Yes Mirror Yes Mirror Yes Audio Built-in Mic Yes Lens Lens Mount M12 Fixed-focal Lens Mount M12 Smart Illumination M12 Alarm Event Alarm Event Mos Deard; SD card full; SD card error disconnection; IP conflict; illegal acc detection, video tampening, audio dete	
Motion Detection OFF/ON (4 areas, rectangular) S/N Ratio >56 dB	
Illumination Distance 30 m (98.43 ft) (IR LED) Smart Illumination Yes	
Illuminator On/Off Control Auto; manual Image Rotation O7/180°	
Illuminator Number 1 (IR LED) Pan: 0*-360* Tilt: 0*-90* Rotation: 0*-360* Rotation: MIC Yes Alarm No SD card; SD card full; SD card error disconnection; IP conflict; illegal acc detection; video tampering, audio de intensity change; SMD (human) Rotation: 0*-360* Rotation: 0*-36	
Pan/Tilt/Rotation Range Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-360° Rotation: 0°-36	
Pan/Tilt/Rotation Range Tilt: 0"-90" Rotation: 0"-360" Built-in MIC Yes Lens Lens Type Fixed-focal Lens Mount M12 Alarm Event Alarm Event Alarm Event Mos D card; SD card full; SD card error disconnection; IP conflict; illegal acc detection; video tampering; audio de intensity change; SMD (human) Focal Length 2.8 mm; 3.6 mm Network Max. Aperture F2.0 Network Port RJ-45 (10/100 Base-T) Wi-Fi EEE802.11b/g/n 2.4-2.4835 GHz Wireless Range Up to 80 m (The performance varies actual environment) Iris Control Fixed Close Focus Distance Lens Detect Detect Detect Dobserve Recognize Identify Rdarm Alarm Wielens Alarm Wielens Wielens RJ-45 (10/100 Base-T) Wi-Fi EEE802.11b/g/n 2.4-2.4835 GHz Wireless Range Video encryption; Configuration encryption; Configuration encryption; Configuration encryption; Configuration encryption; Configuration encryption; Trusted execution; Trusted upper trusted execution; Trusted upper trusted execution; Trusted upper trusted upper trusted execution; Trusted upper Trusted upper trusted upper trusted execution; Trusted upper trusted upper trusted upper trusted execution; Trusted upper trusted execution; Trusted upper trusted execution; Trusted upper trusted execution; Trusted	
Rotation: 0°-360° Lens Lens Type Fixed-focal Lens Mount M12 Alarm Event Alarm Event Mo SD card; SD card full; SD card error disconnection; IP conflict; illegal acc detection; video tampering; audio de intensity change; SMD (human) Focal Length Alarm Event Network Network Network 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 actual environment) Iris Control Fixed Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Built-in MIC Yes No SD card; SD card full; SD card error disconnection; IP conflict; illegal acc detection; video tampering; audio de intensity change; SMD (human) Network Wi-Fi Wi-Fi Up to 80 m (The performance varies actual environment) Video encryption; Configuration enc WSSE; Account lockout; Security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security of the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security in the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security in the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the security log and importing of X.509 certification; boot; Trusted executi	
Lens Type Fixed-focal Lens Mount M12 Alarm Event Mo SD card; SD card full; SD card error disconnection; IP conflict; illegal acc detection; video tampering; audio de intensity change; SMD (human) Network Max. Aperture F2.0 Network Port RJ-45 (10/100 Base-T) 2.8 mm: Horizontal: 100°; Vertical: 53°; Diagonal: 120° 3.6 mm: Horizontal: 86°; Vertical: 43°, Diagonal: 102° Wireless Range Up to 80 m (The performance varies actual environment) Iris Control Fixed SDK and API Yes Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Cyber Security Video encryption; Configuration encomposed by the complete of the control of the contro	
Lens Mount M12 Alarm Event disconnection; IP conflict; illegal accordetection; video tampering; audio detection; audio det	
Focal Length 2.8 mm; 3.6 mm Network Network Network Port RJ-45 (10/100 Base-T) 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 actual environment) Iris Control Fixed SDK and API Yes Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Network Wi-Fi Wi-Fi Up to 80 m (The performance varies actual environment) Video encryption; Configuration encounty log and importing of X.509 certification; boot; Trusted execution; Trusted upgate the performance varies actual environment)	ess; motion
Max. Aperture F2.0 Network Port RJ-45 (10/100 Base-T) RJ-45 (10/100 Base-T) Wi-Fi IEEE802.11b/g/n 2.4–2.4835 GHz Wi-Fi Up to 80 m (The performance varies actual environment) Iris Control Fixed SDK and API Yes Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Network Port RJ-45 (10/100 Base-T) Wi-Fi IEEE802.11b/g/n 2.4–2.4835 GHz Wi-Fi Video encryption; Configuration encrypti	
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 Detect Detect Detect Description Lens No-43 (10/100 Base-1) Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi Wi-Fi Up to 80 m (The performance varies actual environment) Video encryption; Configuration encomposition of the performance varies actual environment) Cyber Security Cyber Security Video encryption; Configuration encomposition of the performance varies actual environment) Cyber Security Video encryption; Configuration encomposition of the performance varies actual environment) Video encryption; Configuration encomposition of the performance varies actual environment) Cyber Security	
Field of View Horizontal: 100°; Vertical: 53°; Diagonal: 120° 3.6 mm: Horizontal: 86°; Vertical: 43°; Diagonal: 102° Wireless Range Up to 80 m (The performance varies actual environment) Fixed SDK and API Yes Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Wireless Range Up to 80 m (The performance varies actual environment) Yes Cyber Security Video encryption; Configuration encr	
Horizontal: 86°; Vertical: 43°; Diagonal: 102° Wireless Range Op to 80 m (The performance varies actual environment) Fixed SDK and API Yes Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Wireless Range Op to 80 m (The performance varies actual environment) Yes Cyber Security Cyber Security Op to 80 m (The performance varies actual environment) Yes Cyber Security Tideo encryption; Configuration encounty and importing of X.509 certification; boot; Trusted execution; Trusted upperformance varies actual environment)	
Close Focus Distance 2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Video encryption; Configuration enc WSSE; Account lockout; Security log and importing of X.509 certification; boot; Trusted execution; Trusted upper the control of the control	based on
Close Focus Distance 3.6 mm: 1.0 m (3.28 ft) Lens Detect Observe Recognize Identify Cyber Security WSSE; Account lockout; Security log and importing of X.509 certification; boot; Trusted execution; Trusted upg	
, soot, instead Account, instead app	s; Generation
DORI 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) Network Protocol IPv4; HTTP; TCP; UDP; ARP; RTP; RTS DNS; NTP; Multicast; RTMP); RTCP; DHCP;
3.6 mm 58.8 m 23.5 m 11.8 m 5.9 m Interoperability ONVIF (Profile S/Profile G); CGI; P2P (19.36 ft)	
Video User/Host 6 (Total bandwidth: 36 M)	
Video CompressionH.264B; H.264; H.264H; H.265StorageMicro SD card (support max. 256 GB separately)	sold
Smart Codec Smart H.265+; Smart H.264+ Browser IE Chrome Firefox	
Main stream: 1920 x 1080 (1–25/30 fps) Management Software Smart PSS; DSS; DMSS	
Sub stream: Video Frame Rate 640 × 480@(1–25 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. CE-LVD: EN62368-1;	
Stream Capability 2 streams Certifications CE-EMC: Electromagnetic Compatibility 2014/30/EU; CE-RED: Radio Equipment Directive 2014/30/EU;	
Resolution 1080p (1920 × 1080); 960p (1280 × 960); 720p (1280 × 720p) FCC: 47 CFR FCC Part 15, Subpart B; FCC ID: FCC ID: FCC PART 15C	

Wi-Fi Series | DH-IPC-HFW1230DS-SAW

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

Or wering in					
Туре	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

Ceiling Mount	Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

