dahua DH-IPC-HDBW1230DE-SW Wi-Fi Series 2MP IR Fixed Focal Wi-Fi Dome Network Camera





dahua DH-IPC-HDBW1230DE-SW Wi-Fi Series 2MP IR Fixed Focal Wi-Fi Dome Network Camera User Guide

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Specifications

• Model: DH-IPC-HDBW1230DE-SW

• Resolution: 2MP

IR Distance: 30m (98.43 ft)Image Sensor: 1/2.8 CMOS

RAM: 64 MBROM: 16 MB

• Lens Type: Fixed-focal

• Lens Mount: M12

• Focal Length: 2.8 mm; 3.6 mm

Video Compression: H.264B; H.264; H.264H; H.265

• Network Protocol: TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, SNMP,

HTTPS, FTP, 802.1x, QoS, IPv6

Product Usage Instructions

Installation

- 1. Choose a suitable mounting location ensuring a clear view of the area to be monitored.
- 2. Mount the camera securely using appropriate mounting hardware.
- 3. Connect the camera to a power source and ensure a stable Wi-Fi connection.

Configuration

- 1. Access the camera's settings interface through a web browser or dedicated software.
- 2. Configure network settings, image quality, motion detection, and other desired parameters.
- 3. Set up user accounts and access controls for security.

Monitoring

- 1. Access the camera feed through a web browser or mobile app using the assigned IP address or cloud service.
- 2. Monitor live footage, and playback recordings, and adjust camera settings as needed.

Maintenance

- 1. Regularly check and clean the camera lens to ensure clear image capture.
- 2. Update firmware periodically to ensure optimal performance and security.

FAQ

- · Q: How far can the IR LEDs illuminate in night mode?
 - A: The IR distance is up to 30m (98.43 ft) for clear night vision.
- Q: Can I use this camera outdoors?
 - A: Yes, the camera is rated IP67 for dust and water resistance, making it suitable for outdoor use.
- · Q: What is the recommended mounting height for optimal coverage?
 - A: For best results, mount the camera at a height where the desired monitoring area is within the specified field of view of the lens.

Series Overview

With features of simple installation, easy operation, and a high performance-cost ratio, the 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 an 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, IK10, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has the dust-proof function, and the enclosure can work normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J).

Wide voltage: The camera allows ±30% (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environments 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, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access.
- Supports single antenna 2.4G Wi-Fi that covers a range of up to 80 m in an open area.
- Supports max. 256 G Micro SD card.
- 12 VDC power supply.
- IP67, IK10 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 <u>lux@F2.0</u> (Color, 30 IRE) 0.0025 <u>lux@F2.0</u> (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	3 (IR LED)
	Pan: 0–355°
D. (T'') D. (1)	Tilt: 0–75°
Pan/Tilt/Rotation Range	Rotation: 0–355°

Lens

Lens Type	ns 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)			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	46.9 mm (153. 87 ft)	18.8 m (61.69 ft)	9.4 m (30.84 ft)	4.7 m (15.42 ft)
	3.6 mm	58.8 mm (192. 91 ft)	23.5 mm (77.1 0 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+
	Main stream:
	1920 × 1080@ (1–25/30 fps)
	Sub stream:
	640 × 480@(1–25 fps)
	640 × 480@(1–30 fps)
Video Frame Rate	*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
	1080p (1920 × 1080); 960p (1280 × 960); 720p
Resolution	(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

Alarm

Alarm Event	No SD card; SD card full; SD card error; network disconnection; I P conflict; illegal access; motion detection; video tampering
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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 encrypton; confguraton encrypton; Digest; WSSE; account lockout; security logs; generaton 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

	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;
Certifications	FCC ID: FCC PART 15C

Power

Power Supply	12 VDC
	Basic: 2 W (12 VDC);
Power Consumption	Max. (H.265+IR intensity): 4.9 W (12 VDC)

Environment

Environment		
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)	
Operating Humidity	≤95%	
Storage Temperature	-30 °C to +60 °C (-22 °F to +140 °F)	
Protection	IP67; IK10	
Structure		
Casing	Metal	
Product Dimensions	Ф110.7 mm × 88.7 mm (Ф4.33" × 3.49")	
Net Weight	414 g (0.91 lb)	
Gross Weight	592 g (1.31 lb)	

Ordering Information

Ordering Information			
Туре	Model	Description	
	DH-IPC- HDBW1230DEP- SW- 0280B	2MP IR Fixed-focal Wi-Fi Dome Network Camera	
	DH-IPC- HDBW1230DEP- SW- 0360B	2MP IR Fixed-focal Wi-Fi Dome Network Camera	
	DH-IPC- HDBW1230DEN- SW-0280B	2MP IR Fixed-focal Wi-Fi Dome Network Camera	
2MP Camera	DH-IPC- HDBW1230DEN- SW-0360B	2MP IR Fixed-focal Wi-Fi Dome Network Camera	
	NBS05C120050VE	12V DC/0.5A Power Adapter	
	PFA136	Junction Mount	
	PFB203W	Wall Mount	
	PFA109+PFB220C	Ceiling Mount	
	PFB203W+PFA152-E	Pole Mount	
Accessories	PFM900-E	Integrated Mount Tester	
	TF-P100	MicroSD Memory Card	

Accessories



NBS05C120050VE 12V DC/0.5A Power Adapter

Optional



PFA136 Junction Mount



PFB203W Wall Mount



PFA109+PFB220C Ceiling Mount





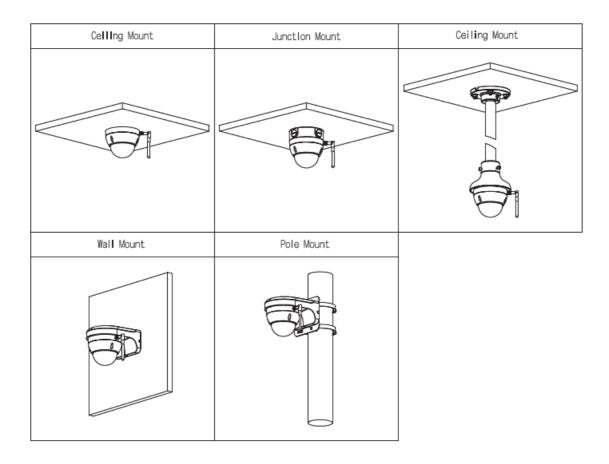
PFB203W+PFA152-E Pole Mount



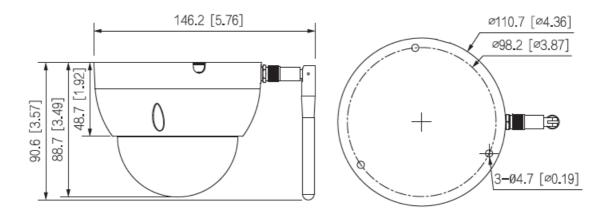
PFM900-E Integrated Mount Tester



TF-P100 MicroSD Memory Card



Dimensions (mm[inch])



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• www.dahuasecurity.com



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References

- @ Dahua Technology World Leading Video-Centric AloT Solution & Service Provider
- User Manual

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