

DH-IPC-HDBW1430DE-SW

4MP IR Fixed-focal Wi-Fi Dome 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.

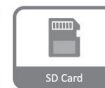
Motion Detection

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.

- 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 band width 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.



Protection (IP67, IK10, 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.

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 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		3 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0–355° Tilt: 0–75° Rotation: 0–355°			
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: 90°; Vertical: 50°; Diagonal: 107° 3.6 mm: Horizontal: 76°; Vertical: 40°; Diagonal: 92°			
Iris Control		Fixed			
Close Focus Distance		2.8 mm: 1.0 m (3.28 ft) 3.6 mm: 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 (55.78 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@ (1–20 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		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 (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; IP conflict; illegal access; motion detection; video tampering
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; Generation 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
Power	
Power Supply	12 VDC

Power Consumption	Basic: 2 W (12 VDC); Max. (H.265+IR intensity): 4.9 W (12 VDC)
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	Φ110.7 mm × 88.7 mm (Φ4.33" × 3.49")
Net Weight	414 g (0.91 lb)
Gross Weight	592 g (1.31 lb)

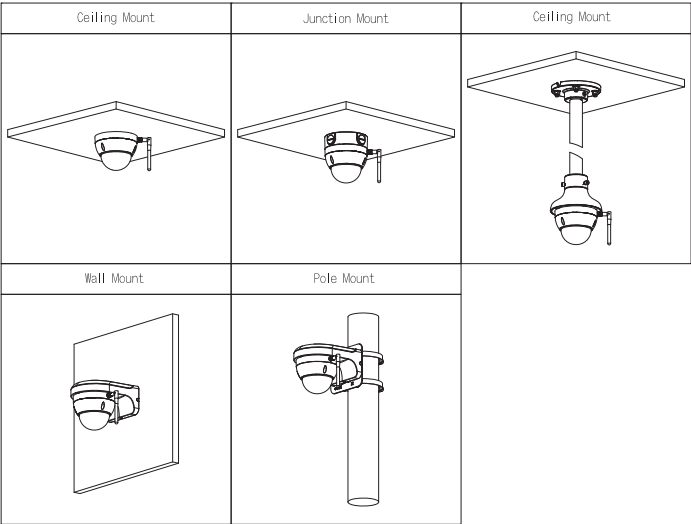
Ordering Information		
Type	Model	Description
4MP Camera	DH-IPC-HDBW1430DEP-SW-0280B	4MP IR Fixed-focal Wi-Fi Dome Network Camera
	DH-IPC-HDBW1430DEP-SW-0360B	4MP IR Fixed-focal Wi-Fi Dome Network Camera
	DH-IPC-HDBW1430DEN-SW-0280B	4MP IR Fixed-focal Wi-Fi Dome Network Camera
	DH-IPC-HDBW1430DEN-SW-0360B	4MP IR Fixed-focal Wi-Fi Dome Network Camera
Accessories	NBS05C120050VE	12V DC/0.5A Power Adapter
	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

Accessories

Included:



Optional:



Dimensions (mm[inch])

