

DH-IPC-HDBW1431E-S4

4MP Entry IR Fixed-focal Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440) @25/30 fps, and supports max. 4MP (2688 × 1520) @20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Image Rotation, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Abnormality detection: Motion detection, video tampering, network disconnection, IP conflict, illegal access, voltage detection
- 12V DC/PoE power supply
- IP67, IK10 protection



Series Overview

With features of simple installation, easy operation, and high performance-cost ratio, Dahua Entry Series 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 (General) technology triggers alarm or records.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Smart Illumination

Dahua Smart Illumination technology can display image in the environment of low illuminance or completely dark environment. According to the distance of the targets, the camera adjusts Illuminations intensity automatically to display the details of the moving target.

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 comprising the device.

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 works 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 \pm 30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

Entry Series |DH-IPC-HDBW1431E-S4

Technical Specification

Camera					
Image Sensor		1/3"4Megapixel progressive CMOS			
Max. Resolution		2688 (H) ×1520 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
S/N Ratio		> 56 dB			
Min. Illumination		0.03 Lux @ F2.0			
Illumination Distance		30 m (98.4 ft)			
Illuminator On/Off Control		Auto/Manual			
Illuminator Number		3 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°			
Lens					
Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F2.0			
Field of View		2.8 mm: Horizontal: 93° Vertical: 53° Diagonal: 111° 3.6 mm: Horizontal: 81° Vertical: 44° Diagonal: 95°			
Iris Type		Fixed			
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)			
	Lens	Detect	Observe	Recognize	Identify
	2.8mm	50.0 m (183.7 ft)	22.4 m (73.5 ft)	11.2 m (36.7 ft)	15.1 m (18.4 ft)
DORI Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)
	(EN-6267 video to c The num distances	(Detect, Observe, Recognize, Identify) is a standard system 2676-4) for defining the ability of a person viewing the to distinguish persons or objects within a covered area. Imbers in this table do not reflect intelligent function ces. For intelligent function distances, refer to installation and issioning manual/project design tool.			
Video					

Video Compression	H.265; H.264; H.264B; MJPEG (only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main Stream: 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps) Sub Stream: 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)

Stream Capability	2 streams		
Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)		
Bit Rate Control	CBR; VBR		
Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps		
Day/Night	Auto(ICR)/Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Manual/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°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower.)		
Mirror	Yes		
Privacy Masking	4 areas		
Alarm			
Alarm Event	Network disconnection; IP conflict; motion detection; video tampering; illegal access; voltage detection; security exception		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP ; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPNP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P		
User/Host	20		
Storage	FTP; SFTP;NAS		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Phone	IOS; Android		

Entry Series | DH-IPC-HDBW1431E-S4

Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B			
Power				
Power Supply	12V DC/POE (802.3af)			
Power Consumption	< 5.5W			
Environment				
Operating Conditions	-40°C to +60°C (-40°F to +140°F) /less than≤95%			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
Protection	IP67, IK10			
Structure				
Casing	Metal			
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")			
Net Weight	0.35 kg (0.8 lb)			
Gross Weight	0.48 kg (1.1 lb)			

Accessories

Optional:



Junction Box



PFB203W

Wall Mount



PFA152-E Pole Mount



PFA106 Mount Adapter

PFB220C Ceiling Mount



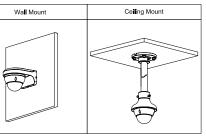


LR1002-1ET/1EC Single-port Long Reach Ethernet over Coax Extender

Junction Mount

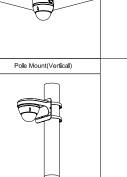
PFM900-E Integrated Mount

Tester

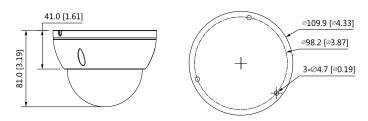


Ordering Information

Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW1431EP-S4	4MP Entry IR Fixed-focal Dome Network Camera,PAL	
	DH-IPC-HDBW1431EN-S4	4MP Entry IR Fixed-focal Dome Network Camera,NTSC	
Accessories (optional)	PFA136	Junction Box	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA106	Mount Adapter	
	PFB220C	Ceiling Mount	
	PFM321D	12V DC 1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender	
	PFM900-E	Integrated Mount Tester	



Dimensions (mm[inch])



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