

DH-IPC-HDBW1431E-S4

4MP Entry IR Fixed-focal Dome Netwok 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 DNR, 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 support
- IP67, IK10 protection













System 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+ & 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.

Wide Dynamic Range (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 IR

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

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.



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Technical Specification						Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps	
Camera						Day/Night	Auto(ICR)/Color/B/W	
Image Sensor		1/3"4Megapixel progressive CMOS				BLC	Yes	
Effective Pixels		2688 (H) ×1520 (V)				HLC	Yes	
ROM		128 MB				WDR	120 dB	
RAM		128 MB					Auto/natural/street lamp/outdoor/manual/regional	
Scanning System		Progressive				White Balance	White Balance custom	
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				Gain Control	Manual/Auto	
Min. Illumination		0.03 Lux @ F2.0				Noise Reduction	3D DNR	
IR Distance		30 m (98.4 ft)				Motion Detection	OFF/ON (4 areas, rectangular)	
IR On/Off Control		Auto/Manual				Region of Interest(RoI)	Yes (4 areas)	
IR LEDs Number		3				Smart IR	Yes	
Pan/Tilt/Rotation Range		Horizontal: 0°–355° Vertical: 0°–65° Rotation: 0°–355°				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution.)	
Lens	lens		333			Mirror	Yes	
Lens Type		Fixed-focal				Privacy Masking	4 areas	
Mount Type		M12				Network	Network	
		2.8 mm				Network	RJ-45 (10/100 Base-T)	
Focal Length		3.6 mm					HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP;	
Max. Aperture		F2.0				Protocol	DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP	
Field of View		2.8 mm: Horizontal: 9. Vertical: 53° Diagonal: 111 3.6 mm: Horizontal: 8	l°			Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P	
		Vertical: 44° Diagonal: 95°				User/Host	20	
Iris Type		Fixed aperture				Edge Storage	Dahua Cloud; FTP; SFTP;NAS	
Close Focus Distance		2.8 mm: 0.8 m (2.6 ft) 3.6 mm: 1.4 m (4.6 ft)				Browser	IE Chrome Firefox	
	Lens	Detect	Observe	Recognize	Identify	Management Software	Smart PSS; DSS; DMSS	
DORI Distance	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)	Mobile Phone	IOS; Android	
	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)	Certification		
Video							CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	
Video Compress	sion	H.265; H.264	; H.264B; MJPE	EG		Certifications		
Smart Codec		Yes					FCC: 47 CFR FCC Part 15, Subpart B	
Video Frame Rate		Main Stream: 2688 × 1520 (1 fps–20 fps)				Power		
		Sub Stream:	(1 fps–25/30 fp			Power Supply	12V DC/POE (802.3af)	
		704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)				Power Consumption	< 5.5W	
Stream Capability		2 streams				Environment	Environment	
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)				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)	
Bit Rate Control		CBR; VBR				Ingress Protection	IP67, IK10	

Entry Series | DH-IPC-HDBW1431E-S4

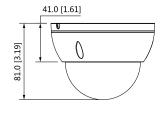
Structure

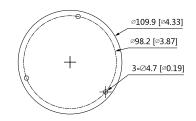
Casing	Metal
Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	0.35 kg (0.8 lb)
Gross Weight	0.48 kg (1.1 lb)

Ordering Information							
Туре	Part Number	Description					
4MP	DH-IPC-HDBW1431EP-S4	4MP Entry IR Fixed-focal Dome Netwok Camera,PAL					
Camera		4MP Entry IR Fixed-focal Dome Netwok Camera,NTSC					
	PFA136	Junction Box					
	PFA200W	Rain Shade					
	PFB203W	Wall Mount					
	PFA152-E	Pole Mount					
Accessories	PFA106	Mount Adapter					
(optional)	PFB220C	Ceiling Mount					
	PFM321D	DC12V1A Power Adapter					
	LR1002-1ET/1EC	Single-port Long Reach Ethernet over Coax Extender					
	PFM900-E	Integrated Mount Tester					

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])





Accessories

Optional:



PFA136 Junction Box



PFA200W Rain Shade



PFB203W Wall Mount



PFA152-E Pole Mount



Mount Adapter

PFA106



PFB220C Ceiling Mount



PFM321D DC12V1A Power Adapter



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



PFM900-E Integrated Mount Tester

