

# 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 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.



Many   May   Ma	Technical Specification							Bit Rate Control	CBR; VBR
Make   Sensition   1/2   Make   1/2   Mak									
Max. Resolution			1/3″4Megani	xel progressive	: CMOS				
RIC								Day/Night	Auto(ICR)/Color/B/W
Manual								BLC	Yes
Main								HLC	Yes
### Sharing S								WDR	120 dB
Manifements   Manifement   M				1/2 1/1000				White Balance	
Min.		er Speed	Auto/Manual 1/3 s–1/100000 s					Gain Control	
Motion Distance   30 m   38 d m   1 m	S/N Ratio		> 56 dB						
Region of Interest[Rol]   Region of Intere	Min. Illumination	n	0.03 Lux @ F2	2.0					
	Illumination Dist	tance	30 m (98.4 ft)						
Pan/Till/Rotation Range	Illuminator On/0	Off Control	Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
Pan/Till/Rotation   Range   Rotation   Caupnort 90/370* with 2688 x 1520 resolution and lower.]   Image Rotation   Caupnort 90/370* with 2688 x 1520 resolution and lower.]   Image Rotation   Caupnort 90/370* with 2688 x 1520 resolution and lower.]   Image Rotation   Caupnort 90/370* with 2688 x 1520 resolution and lower.]   Image Rotation   Caupnort 90/370* with 2688 x 1520 resolution and lower.]   Image Rotation   Caupnort 90/370* with 2688 x 1520 resolution and lower.]   Image Rotation   Ves   Privacy Masking   4 areas   Alarm   Alarm   Alarm   Privacy Masking   4 areas   Alarm   Alarm   Privacy Masking   4 areas   Privacy Masking   Privacy Privacy Privacy   Privacy Privacy Privacy   Privacy Privacy Privacy Privacy Privacy   Privacy	Illuminator Num	ber	3 (IR LED)					Smart Illumination	Yes
Privacy Masking   A areas	Pan/Tilt/Rotation Range		Tilt: 0°-65°					Image Rotation	(Support 90°/270° with 2688 × 1520 resolution and
Mount Type	Lens							Mirror	Yes
Alarm   Focal Length	Lens Type		Fixed-focal					Privacy Masking	4 areas
Alarm Event   S.6 mm	Mount Type		M12					Alarm	
Part	Focal Length							Alarm Event	video tampering; illegal access; voltage detection;
Horizontal: 93*	Max. Aperture							Notwork	security exception
Field of View   Diagonal: 111			Horizontal: 93	3°					DI 45 /10/100 Page T\
Horizontal: 81*	Field of View		Diagonal: 111°						
Fixed   Close Focus Distance   Fixed   Cyber Security   PfMAC filtering; generation and importing of X.509   certification; syslog; HTTP; 802_1x; trusted boot; trusted execution; trusted upgrade   Protocol			Horizontal: 81° Vertical: 44°						Video encryption; firmware encryption; configuration
Close Focus Distance   Close Distance   Close Focus Distance   Close Distance   Close Focus Distance   Close Distance   Cl	Iris Type		Fixed						IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted
DORI Distance   Lens	Close Focus Dist	ance	, ,						
DORI Distance   2.8mm   50.0 m (183.7 ft)   (73.5 ft)   (36.7 ft)   (18.4 ft)   (18.4 ft)   (36.7 f		Lens	Detect	Observe	Recognize	Identify		Protocol	
Note   Storage	DOPI Distance	2.8mm							
Video Compression         H.265; H.264; H.264B; MJPEG (only supported by sub stream)         Storage         FTP; SFTP; NAS           Smart Codec         Smart H.265+/ Smart H.264+         Browser         IE Chrome Firefox           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)         Management Software         Smart PSS; DSS; DMSS           Stream Capability         2 streams         Mobile Phone         IOS; Android           Certification         CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU (1280 × 960); 720p (1280 × 720p); D1 (704 × 576/704 ×         Certifications	DOM DISTANCE	3.6mm	80.0 m	32.0 m	16.0 m	8.0 m		Interoperability	
Smart Codec   Smart H.265+/ Smart H.264+   Browser   IE   Chrome   Firefox	Video							User/Host	20
Smart Codec   Smart H.265+/ Smart H.264+   Browser   IE   Chrome   Firefox	Video Compression							Storage	FTP; SFTP;NAS
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)         Management Software         Smart PSS; DSS; DMSS           Stream Capability         2 streams         Mobile Phone         IOS; Android           Certification           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 ×         Certifications         CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	Smart Codec							Browser	
Video Frame Rate       2560 × 1440 (1 fps-25/30 fps) Sub Stream: 704 × 576 (1 fps-20/25 fps) 704 × 480 (1 fps-20/30 fps)       Mobile Phone       IOS; Android         Stream Capability       2 streams         Certification         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 ×       Certifications       CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU	Video Frame Rate								
Sub Stream: 704 × 576 (1 fps-20/25 fps)			2560 × 1440 (1 fps-25/30 fps)					Management Software	Smart PSS; DSS; DMSS
Certification   2 streams   Certification   Certification     Certification   Certification   Certification   CE-LVD: EN62368-1   CE-LVD: EN62368-1   CE-EMC: Electromagnetic Compatibility Directive   Certifications   Certific			704 × 576 (1 fps–20/25 fps)					Mobile Phone	IOS; Android
Resolution 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × Certifications (1280 × 960); 720p (1280 × 9	Stream Capability							Certification	
	Resolution		2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU

## Entry Series | DH-IPC-HDBW1431E-S4

### 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)		

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

### 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

Junction Mount	Wa <b>ll</b> Mount	Ceiling Mount
Pole Mount(Vertical)		I.

### Dimensions (mm[inch])



