

# DH-IPC-HDBW2431E-S-S2

4MP IR Mini Dome Network Camera



- $\cdot$  4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 × 1520) @ 20 fps
- H.265 coding, high compression ration, 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
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tempering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- Max. 256 GB SD card
- 12V DC/POE power support
- IP67, IK10 protection grade



### **System Overview**

With updraded H.265 encoding technology, Dahua Lite series camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

### Functions

### Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264 ), providing high-quality video, and reducing the cost of storage and transmission.

### Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

### Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

### Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

### 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 m (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.



## Lite Series | DH-IPC-HDBW2431E-S-S2

Technical Specification							Stream Capability	Main stream; sub stream
Camera Image Sensor		1/3" CMOS					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 ×
Effective Pixels		2688 (H) × 1520 (V)					480); VGA (640 ×480); CIF (352 × 288/352 × 240)	
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		128 MB					Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Scanning System		Progressive					Day/Night	ICR switch
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s					BLC	Yes
Min. Illumination		0.01 Lux @ F1.6					WDR	120 dB
IR Distance		30 m (98.43 ft) (IR)					White Balance	Auto/natural/street lamp/outdoor/manual/regional
IR On/Off Contro	ol.	Auto/Manual					Gain Control	custom Auto/Manual
IR LEDs Number		3 (IR LED)					Noise Reduction	3D DNR
		Horizonal: 0°-					Motion Detection	Disable/Enable (4 areas, rectangle)
Pan/Tilt/Rotatior	n Range	Vertical: 0°–65° Rotation: 0°–355°					Region of Interest(RoI)	Yes (4 areas)
Lens							Smart IR	Yes
Lens Type		Fix focal						0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520
Mount Type		M12					Image Rotation	resolution.)
Focal Length		2.8 mm 3.6 mm					Mirror	Yes
Max. Aperture		F1.6					Privacy Masking	4 areas
		2.8 mm: Horizonal: 102.0°					Network	
Field of View		Vertical: 55.0° Diagonal: 121.0° 3.6 mm: Horizonal: 84.0° Vertical: 45.0° Diagonal: 100.0°					Network Protocol	RJ-45 (10/100 Base-T) HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Iris Type		Fixed					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft)					Scene self-adaptation	20
	Lens	Detect	Observe	Recognize	Identify		User/Host	20
DORI Distance	2.8mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (19.37 ft)		Edge Storage	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS
Dorn Distance	3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)		Browser	IE Google Firefox
Smart Event							Management Software	Smart PSS; DSS; DMSS
General IVS Analytics		Intrusion; tripwire					Mobile Phone	IOS; Android
Video							Certification	
Video Compression		H.265; H.264; H.264B; MJPEG					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CAN
Smart Codec		H.264: Yes H.265: Yes 50Hz						
Video Frame Rate		Main stream (2560 × 1440@25 fps); sub stream (704 × 576@25 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 576@20 fps) 60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)					Power	
							Power Supply	12V DC/POE
							Power Consumption	Basic power consumption: 1.9W (12V DC); 2.3W (POE) Max power consumption (H.265 + WDR + Intelligent function + IR): 4.5W (12V DC), 5.2W (POE)

### Lite Series | DH-IPC-HDBW2431E-S-S2

### Environment

Operating Temperature	-40°C to +60°C (-40°F to +140°F)		
Operating Humidity	≤95%		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Storage Humidity	≤95%		
Protection Grade	IP67, IK10		
Structure			
Casing	Metal		
Dimensions	81 mm × Φ109.9 mm (3.19" × Φ4.33")		
Net Weight	0.350 kg (0.77 lb)		
Gross Weight	0.491 kg (1.08 lb)		

PFM321D

DC12V1A Power

Adapter



LR1002-1ET/1EC

Single-port long

reach ethernet over

coax extender



PFM900-E Integrated Mount tester



PFM114 TLC SD card

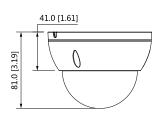
Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
	73	B	
Ceiling Mount			
PFA106+PFB220C			

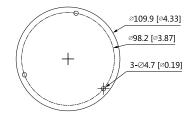
### **Ordering Information**

Туре	Part Number	Description	
4MP Camera	DH-IPC-HDBW2431EP-S-S2	4MP IR Mini Dome Network Camera,PAL	
	DH-IPC-HDBW2431EN-S-S2	4MP IR Mini Dome Network Camera,NTSC	
	PFA136	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
Accessories	PFA106	Mount Adapter	
Accessories (optional)	PFB220C	Celling Mount	
	PFM321D	DC12V1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender	
	PFM900-E	Integrated Mount Tester	
	PFM114	TLC SD Card	

### Dimensions (mm[inch])

0





### Accessories

### **Optional:**



PFA136 Junction Box



PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Wall Mount



PFA106 Mount Adapter PFB220C

Celling Mount

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