

# DH-IPC-HDBW2431E-S-S2

4MP WDR IR Mini Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560  $\times$  1440)@25/30 fps, max. supports 4MP (2688  $\times$  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
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro 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 ±30% input voltage tolerance (wide

Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sp	ecificati	on						2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);	
Camera							Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×	
Image Sensor		1/3" 4Megapixel progressive CMOS						480); VGA (640 ×480); CIF (352 × 288/352 × 240)	
Effective Pixels		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR	
ROM		128 MB					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps	
RAM		128 MB					Day/Night	Auto(ICR)/Color/B/W	
Scanning System		Progressive					BLC	Yes	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					HLC	Yes	
Min. Illumination		0.008 Lux @ F1.6					WDR	120 dB	
IR Distance		30 m (98.43 ft)					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom	
IR On/Off Control		Auto/Manual					Gain Control	Auto/Manual	
IR LEDs Number		3					Noise Reduction	3D DNR	
Pan/Tilt/Rotation	n Range	Pan: 0°–355° Tilt: 0°–65°					Motion Detection	OFF/ON (4 areas, rectangular)	
		Rotation: 0°–355°					Region of Interest(RoI)	Yes (4 areas)	
Lens		e: 16 1					Smart IR	Yes	
Lens Type  Mount Type		Fixed-focal M12					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution and lower.)	
Focal Length		2.8 mm					Mirror	Yes	
_		3.6 mm					Privacy Masking	4 areas	
Max. Aperture		F1.6 2.8 mm:					Network		
		Pan: 102.0° Tilt: 55.0°					Network	RJ-45 (10/100 Base-T)	
Field of View		Diagonal: 121.0° 3.6 mm: Pan: 84.0° Tilt: 45.0° Diagonal: 100.0°					Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour	
Iris Type		Fixed aperture					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec	
Close Focus Distance		2.8 mm: 0.9 m (2.95 ft) 3.6 mm: 1.6 m (5.25 ft)					User/Host	20	
	Lens	Detect 56 m	Observe 22.4 m	Recognize	Identify 5.6 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
DORI Distance	2.8mm	(183.73 ft)	(73.49 ft)	(36.75 ft)	(19.37 ft)			IE	
	3.6mm	80 m (262.47 ft)	32 m (104.99 ft)	16 m (52.49 ft)	8 m (26.25 ft)		Browser	Chrome Firefox	
Smart Event							Management Software	Smart PSS; DSS; DMSS	
General IVS Analytics		Tripwire; intrusion					Mobile Phone	IOS; Android	
Video						Certification			
Video Compression		H.265; H.264; H.264B; MJPEG						CE-LVD: EN60950-1	
Smart Codec		Yes					Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Video Frame Rate		Main stream: 2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)							
							Power		
		704 × 480 (1 fps-30 fps)					Power Supply	12V DC/PoE (802.3af)	
Stream Capability		2 streams					Power Consumption	< 5.2W	

#### Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
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)

Ordering Information					
Туре	Part Number	Description			
4MP	DH-IPC-HDBW2431EP-S-S2	4MP WDR IR Mini Dome Network Camera,PAL			
Camera	DH-IPC-HDBW2431EN-S-S2	4MP WDR IR Mini Dome Network Camera,NTSC			
	PFA136	Junction Box			
	PFA200W	Rain Shade			
	PFB203W	Wall Mount			
	PFA152-E	Pole Mount			
Accessories	PFA106	Mount Adapter			
(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			



PFM321D DC12V1A Power Adapter



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



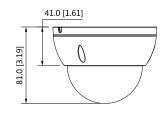
Integrated Mount Tester

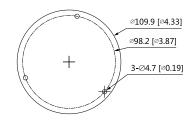


PFM114 TLC SD Card

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



PFA152-E Pole Mount



PFA200W Rain Shade



PFA106 Mount Adapter



PFB203W Wall Mount



PFB220C Celling Mount

