

# DH-IPC-HDBW2431E-S-S2

4MP IR Mini Dome Network Camera



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



Technical Sp	ecification	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	ICR switch
Scanning System		Progressive					BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					WDR	120 dB
Min. Illumination		0.01 Lux @ F1.6					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR Distance		30 m (98.43 ft)					Gain Control	Auto/Manual
IR On/Off Control		Auto/Manua					Noise Reduction	3D DNR
IR LEDs Number		3					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Horizonal: 0°–355° Vertical: 0°–65°					Region of Interest(RoI)	Yes (4 areas)
rany my notation name		Rotation: 0°–355°					Smart IR	Yes
Lens Type		Fix focal					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution.)
Mount Type		M12					Mirror	Yes
Focal Length		2.8 mm 3.6 mm					Privacy Masking	4 areas
Max. Aperture		F1.6					Network	
Field of View		2.8 mm: Horizonal: 102.0° Vertical: 55.0° Diagonal: 121.0° 3.6 mm: Horizonal: 84.0° Vertical: 45.0°					Protocol  Interoperability	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  ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Iris Type		Diagonal: 100.0° Fixed					Scene self-adaptation	20
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	Observe	Recognize	Identify		Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS
DORI Distance	2.8mm 3.6mm	56 m (183.73 ft) 80 m (262.47 ft)	22.4 m (73.49 ft) 32 m (104.99 ft)	11.2 m (36.75 ft) 16 m (52.49 ft)	5.6 m (19.37 ft) 8 m (26.25 ft)		Browser	IE Chrome Firefox
Smart Event							Management Software	Smart PSS; DSS; DMSS
General IVS Anal	ytics	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/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Smart Codec		H.264: Yes H.265: Yes Main stream: 2688 × 1520 (1 fps-20 fps)						
Video Frame Rate		2560 × 1240 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Power	
							Power Supply	12V DC/POE
Stream Capability		2 streams					Power Consumption	< 5.2W

Environment

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

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/ less than ≤ 95 %
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 IR Mini Dome Network Camera,PAL			
Camera	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			
(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			





reach ethernet over

coax extender

LR1002-1ET/1EC Single-port long



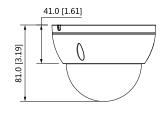
PFM900-E Integrated Mount tester

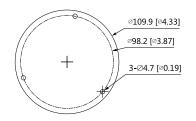


PFM114 TLC SD card

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



PFA200W Rain Shade



PFA106 Wall Mount









PFA152-E Pole Mount

PFA106 Mount Adapter

PFB220C Celling Mount

