

DH-IPC-HDBW2231E-S-S2

2MP IR Mini Dome Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs 2MP (1920 × 1080) @ 25/30 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 tampering, 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-HDBW2231E-S-S2

Technical Specification

Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Effective Pixels		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.002 Lux @F1.6			
IR Distance		30 m (98.4 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		3 (IR LED)			
Pan/Tilt/Rotation Range		Horizonal: 0°–355° Vertical: 0°–65° Rotation: 0°–355°			
Lens					
Lens Type		Fixed focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F1.6			
Field of View		2.8 mm: Horizontal:106° Vertical: 56° Diagonal: 126° 3.6 mm: Horizontal:87° Vertical: 46° Diagonal: 104°			
Iris Type		Fixed aperture			
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	3.6 mm	55.2 m (181.1 ft)	22.1 m (72.5 ft)	11.0 m (36.1 ft)	5.5 m (18.0 ft)
Smart Event					
General IVS Analytics		Intrusion; tripwire			

Video	
Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	H.264: Yes H.265: Yes
Video Frame Rate	50 Hz Main stream (1920 × 1080@25 fps); sub stream(704 × 576@25 fps) 60 Hz Main stream (1920 × 1080@30 fps), sub stream(704 × 480@30 fps)
Stream Capability	2 streams
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)

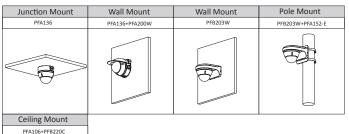
Bit Rate Control	CBR; VBR		
Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps		
Day/Night	ICR auto switch		
BLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(RoI)	Yes (4 areas)		
Smart IR	Yse		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution.)		
Mirror	Yes		
Privacy Masking	4 areas		
Network			
Network	RJ-45 (10/100 Base-T)		
Protocol	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		
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec		
User/Host	20		
Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS		
Browser	IE; Chrome; Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Phone	IOS; Android		
Certification			
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		
Power			
Power Supply	12V DC/PoE		
Power Consumption	Basic power consumption: 1.9W (12V DC); 2.4W (PoE) Max. power consumption (H.265 + max. resolution + max. stream + WDR + IR full intensity + IVS enabled): 4.5W (12V DC); 5.4W (PoE)		
Environment			
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		

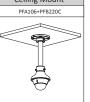
Lite Series | DH-IPC-HDBW2231E-S-S2

Dimensions	81 mm × Φ109.9 mm (3.2" × Φ4.3")
Net Weight	0.35 kg (0.77lb)
Gross Weight	0.48 kg (1.06lb)

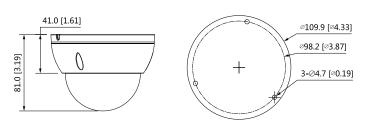
Ordering Information

Туре	Part Number	Description	
2MP Camera	DH-IPC-HDBW2231EP-S-S2	2MP IR Mini Dome Network Camera, PAL	
	DH-IPC-HDBW2231EN-S-S2	2MP IR Mini Dome Network Camera, NTSC	
	PFA136	Junction Box	
	PFA200W	Rain Shade	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	
	PFA106	Mount Adapter	
Accessories (optional)	PFB220C	Celling Mount	
	PFM321D	DC12V1A Power Adapter	
	LR1002-1ET/1EC	Single-port Long Reach Ethernet Over Coax Extender	
	РҒМ900-Е	Integrated Mount Tester	
	PFM114	TLC SD Card	





Dimensions (mm[inch])



Accessories

Optional:



PFA136 Junction Box



PFA152-E Pole Mount



PFM321D DC12V1A Power Adapter



PFM114 TLC SD card



PFA200W Rain Shade



PFA106 Mount Adapter



LR1002-1ET/1EC Single-port long reach ethernet over coax extender



PFA106 Wall Mount



PFB220C Celling Mount



PFM900-E Integrated Mount tester



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