

DH-IPC-HDBW2231R-ZS-S2

2MP WDR IR 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: 40 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-HDBW2231R-ZS-S2

Technical Sp	ecificati	on				Video Bi	t Rate
Camera				Day/Nig	nt		
Image Sensor		1/2.8" CMOS				BLC	
Effective Pixels		1920 (H) × 10	1920 (H) × 1080 (V)			WDR	
ROM		128 MB	128 MB			White B	alanco
RAM		128 MB	128 MB				
Scanning System	ı	Progressive			Gain Cor		
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			Noise Re		
Min. Illumination	Min. Illumination 0.002 Lux @ F1.6				Motion		
IR Distance		40 m (131.23	ft) (IR)			Region c	fIntei
IR On/Off Contro	ol	Auto/Manual				Smart IR	
IR LEDs Number		2 (IR LED)				Image Ro	otatio
		Horizonal: 0°-	-355°			Mirror	
Pan/Tilt/Rotatio	n Range	Vertical: 0°–7 Rotation: 0°–				Privacy I	Maskir
Lens						Netwo	ork
Lens Type		Motorized va	ri-focal			Network	:
Mount Type		ф14					
Focal Length		2.7mm–13.5mm			Protocol		
Max. Aperture		F1.6			Interope	rabilit	
Field of View		Horizonal: 109°–28°			User/Ho	st	
Field of View		Vertical: 57°–16° Diagonal: 131°–33			Edge Sto	rage	
Optical Zoom		5 times			Drowcor		
Iris Type		Fixed			Browser		
Close Focus Distance		0.8m–0.8m (2.62 ft–2.62 ft)			Manage	ment	
	Lens	Detect	Observe	Recognize	Identify	Mobile F	vhone
DORI Distance	W	44.1 m (144.69 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)	4.4 m (14.44 ft)	Certifi	catio
	т	151.7 m (497.70 ft)	60.6 m (198.82 ft)	30.3 m (99.41 ft)	15.1 m (49.65 ft)		
Smart Event						Certifica	tions
General IVS Analytics		Intrusion; tripwire					
Video					Power		
Video Compression		H.265; H.264; H.264B; MJPEG			Power S	upply	
Smart Codec		H.264: Yes H.265: Yes			Power C	onsun	
Video Frame Rate		50Hz Main stream (1920 × 1080@25 fps); sub stream (704 × 576@25 fps) cour			Enviro	nme	
		60Hz Main stream (1920 × 1080@30 fps); sub stream (704 × 480@30 fps)			Operatir	ıg Terr	
Stream Capability		Main stream; sub stream			Operatir	ng Hur	
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			Storage	Tempe	
					Storage	Humic	
Bit Rate Control		CBR/VBR			Protecti	on Gra	

Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Day/Night	ICR 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	Disable/Enable (4 areas, rectangle)
Region of Interest(RoI)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Supports 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 (max. 256 GB); NFS
Browser	IE Google 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: UL60950-1 CAN
Power	
Power Supply	12V DC/POE
Power Consumption	Basic power consumption: 2W (12V DC); 2.7W (POE) Max power consumption: (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.8W (12V DC), 6.4W (POE)
Environment	
Operating Temperature	-30°C to +60°C (-22°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

Lite Series | DH-IPC-HDBW2231R-ZS-S2

Structure

Casing	Metal
Dimensions	Ф122 mm × 88.9 mm (Ф4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Ordering Information

Туре	Part Number	Description		
2MP Camera	DH-IPC-HDBW2231RP-ZS-S2	2MP WDR IR Dome Network Camera,PAL		
	DH-IPC-HDBW2231RN-ZS-S2	2MP WDR IR Dome Network Camera,NTSC		
	PFA137	Junction Box		
	PFB203W	Wall Mount		
	PFA152-E	Pole Mount		
	PFA200W	Rain Shade		
	PFA106	Mount Adapter		
Accessories	PFB220C	Celling Mount		
(optional)	PFB200C	In-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		



PFA200W Rain Shade



PFA106 Mount Adapter



PFB200C In-Celling Mount



PFM900-E Integrated Mount

tester



PFM321D DC12V1A Power Adapter

TLC SD card



PFM114



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

PFB220C

Celling Mount

Junction Mount	Wall Mount	Wall Mount	Pole Mount	
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E	
	D			
Ceiling Mount	In-Ceiling Mount			
PFA106+PFB220C	PFB200C			
	(b)			

Dimensions (mm[inch])

Accessories

Optional:



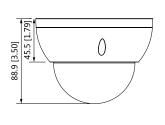
PFA137 Junction Box

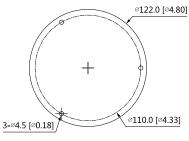


PFB203W

Wall Mount

PFA152-E Pole Mount







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