

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 codec, high compression rate, ultra-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 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	ecificati	on					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Camera							Day/Night	ICR switch
Image Sensor		1/2 8"2Meganixel progressive CMOS		Yes				
Effective Pixels		1920 (H) × 1080 (V)					WDR	120 dB
ROM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
RAM		128 MB						custom
Scanning System		Progressive					Gain Control	Auto/Manual
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s					Noise Reduction	3D DNR
Min. Illumination	า	0.002 Lux @ F1.5					Motion Detection	OFF/ON (4 areas, rectangular)
IR Distance		40 m (131.23 ft)					Region of Interest(RoI)	Yes (4 areas)
IR On/Off Contro	ol	Auto/Manual					Smart IR	Yes
IR LEDs Number		2					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
	_	Horizonal: 0°–355°					Mirror	Yes
Pan/Tilt/Rotation	n Range	Vertical: 0°-7 Rotation: 0°-					Privacy Masking	4 areas
Lens							Network	
Lens Type		Motorized vari-focal				Network	RJ-45 (10/100 Base-T)	
Mount Type		ф14					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
Focal Length		2.7mm-13.5mm						
Max. Aperture		F1.5					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Field of View		Horizonal: 109°–28° Vertical: 57°–16° Diagonal: 131°–33					User/Host	20
Optical Zoom		5 times					Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NFS
Iris Type		Fixed	Fixed				Browser	IE Chrome Firefox
Close Focus Dista	Close Focus Distance 0.8m-		.8m-0.8m (2.62 ft-2.62 ft)					
	Lens	Detect	Observe	Recognize	Identify		Management Software	Smart PSS; DSS; DMSS
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)		Mobile Phone	IOS; Android
	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)		Certification	
Smart Event								CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
General IVS Anal	ytics	Intrusion; trip	owire				Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Video								UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Compression		H.265; H.264; H.264B; MJPEG					Power	
Smart Codec		H.264: Yes H.265: Yes					Power Supply	12V DC/POE
	1		Main stream:				Power Consumption	< 6.4W
Video Frame Rate		1920 × 1080 (1 fps-25/30 fps) Sub stream:					Environment	
		704 × 576 (1 fps-25fps) 704 × 480 (1 fps-30fps)					Operating Conditions	-30°C to $+60$ °C (-22 °F to $+140$ °F)/ less than ≤ 95%
Stream Capability		2 streams					Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Pacalution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF					Protection Grade	IP67, IK10
nesolution	Resolution		52 × 240)	400), VGA (04)	u ^ 40U/; CIF		Structure	
Bit Rate Control	Bit Rate Control						Casing	Metal

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

Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 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	DH-IPC-HDBW2231RP-ZS-S2	2MP WDR IR Dome Network Camera,PAL				
Camera	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				

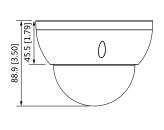


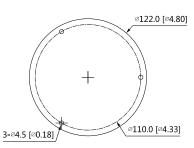


PFM114 TLC SD card

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

Dimensions (mm[inch])





Accessories

Optional:



LR1002-1ET/1EC

PFM900-E

PFM114





PFB203W Wall Mount



Single-port Long Reach Ethernet

over Coax Extender Integrated Mount Tester

TLC SD Card

Pole Mount



PFA200W Rain Shade

PFB200C

In-Celling Mount



PFA106



Mount Adapter



PFM321D DC12V1A Power Adapter



PFB220C

Celling Mount

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

