

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



7 1 : 16								H.264: 32 kbps-6144 kbps	
Technical Specification							Video Bit Rate	H.265: 12 kbps-6144 kbps	
Camera							Day/Night	Auto(ICR)/Color/B/W	
Image Sensor		1/2.8" 2Megapixel progressive CMOS					BLC	Yes	
Effective Pixels		1920 (H) × 1080 (V)					HLC	Yes	
ROM		128 MB					WDR	120 dB	
RAM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional 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		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 Control		Auto/Manual					Smart IR	Yes	
IR LEDs Number		2						0°/90°/180°/270° (Supports 90°/270° with 1080p	
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–75°					Image Rotation	resolution.)	
,,		Rotation: 0°–355°					Mirror	Yes	
Lens							Privacy Masking	4 areas	
Lens Type		Motorized vari-focal					Network		
Mount Type		ф14					Network	RJ-45 (10/100 Base-T)	
Focal Length		2.7mm-13.5mm					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	
Max. Aperture		F1.5 Pan: 109°–28°							
Field of View		Fill: 105 –28 Tilt: 57°–16° Diagonal: 131°–33°					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec	
Iris Type		Fixed aperture					User/Host	20	
Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft) Detect Observe Recognize Identify					Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
	Lens	44.1 m	17.6 m	8.8 m	4.4 m			IE	
DORI Distance	T	(144.69 ft) 151.7 m (497.70 ft)	(57.74 ft) 60.6 m	(28.87 ft) 30.3 m	(14.44 ft) 15.1 m		Browser	Chrome Firefox	
Smart Event		(497.70 IL)	(198.82 ft)	(99.41 ft)	(49.65 ft)		Management Software	Smart PSS; DSS; DMSS	
General IVS Anal		Tripwires intrusion					Mobile Phone	IOS; Android	
Video	., (103	Tripwire; intrusion					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/CUI: UL60950-1 CAN/CSA C22.2 No.60950-1-07	
Smart Codec		Yes							
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)					Power	01/C01. 0100330-1 CAN/C3A C22.2 NO.00330-1-07	
							Power Supply	12V DC/PoE (802.3af)	
							Power Consumption	< 6.4W	
Stream Capability		2 streams					Environment		
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280					Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than ≤ 95% RH	
		×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)						-40°C to +60°C (-40°F to +140°F)	
Pit Pata Control							Storage Temperature		
Bit Rate Control		CBR/VBR					Protection Grade	IP67; IK10	

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				

Accessories

Optional:







PFB203W Wall Mount



PFA200W PFA106 Rain Shade Mount Adapter



PFB200C In-Celling Mount



PFM321D DC12V1A Power Adapter



PFA152-E Pole Mount



Pole Mount



PFB220C Celling Mount



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





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		

Dimensions (mm[inch])





