

DH-IPC-HDBW2231R-ZAS-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
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; 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 Specification				Video Bit Rate	H.264: 32 kbps–6144 kbps 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					Auto/natural/street lamp/outdoor/manual/regional	
Scanning System	Progressive				White Balance	custom	
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100000 s				Gain Control	Auto/Manual	
Min. Illumination	0.002Lux @ F	0.002Lux @ F1.5				Noise Reduction	3D DNR
IR Distance	40 m (131.23	40 m (131.23 ft)				Motion Detection	OFF/ON (4 areas, rectangular)
IR On/Off Control	Auto/Manual				Region of Interest(RoI)	Yes (4 areas)	
IR LEDs Number	2					Smart IR	Yes
Pan/Tilt/Rotation Range	Pan: 0°–355°				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)	
Rotation: 0°–355°				Mirror	Yes		
Lens Type	Matarizad vari facal				Privacy Masking	4 areas	
	Motorized vari-focal				Audio		
	Mount Type ϕ 14				Audio Compression	G.711a; G.711Mu; G.726; AAC	
Focal Length	Focal Length 2.7mm—13.5mm				Network		
Max. Aperture	perture F1.5				Network	RJ-45 (10/100 Base-T)	
Field of View	Pan: 109°–28° Tilt: 57°–16° Diagonal: 131°–33°				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	
Iris Type Fixed aperture					ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone;		
Close Focus Distance 0.8 m -0.8 m (2.62 ft -2.62 ft)			Interoperability	Genetec			
Lens	Detect	Observe	Recognize	Identify		User/Host	20
DORI Distance W	44.1 m (144.69 ft) 151.7 m	17.6 m (57.74 ft) 60.6 m	8.8 m (28.87 ft) 30.3 m	4.4 m (14.44 ft) 15.1 m		Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
T Smart Event	(497.70 ft)	(198.82 ft)	(99.41 ft)	(49.65 ft)		Browser	IE Chrome Firefox
General IVS Analytics	Tripwire; intr	usion				Management Software	Smart PSS; DSS; DMSS
Video						Mobile Phone	IOS; Android
Video Compression					Certification		
Smart Codec	Yes					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	
Video Frame Rate	Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)						Certifications
704 × 480 (1 fps-30 fps)				Port			
Stream Capability 2 streams				Audio Input	1 channel (RCA port)		
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF				Audio Output	1 channel (RCA port)
NESUIUUUII	(352 × 288/3		-00), VGA (04)	5 ^ 40UJ, CIF		Alarm Input	1 channel In: 5mA 3V–5VDC
Bit Rate Control CBR/VBR				Alarm Output	1 channel Out: 300mA 12VDC		

Power

Power Supply	12V DC/PoE (802.3af)		
Power Consumption	< 6.4W		
Environment			
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than \leq 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67; IK10		

Structure

Casing	Metal
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 Camera	DH-IPC-HDBW2231RP-ZAS-S2	2MP WDR IR Dome Network Camera,PAL			
	DH-IPC-HDBW2231RN-ZAS-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:





PFA137

Junction Box





PFA152-E

Pole Mount

PFB203W Wall Mount





PFA200W Rain Shade

PFA106 Mount Adapter

PFB220C Celling Mount







PFM321D DC12V1A Power Adapter



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



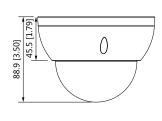
PFM900-E Integrated Mount Tester

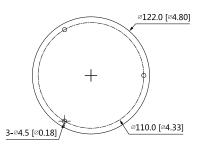


PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA137	PFA137+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount	In-Ceiling Mount		
PFA106+PFB220C	PFB200C		
	6		

Dimensions (mm[inch])







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