

DH-IPC-HDBW2231E-S-S2

2MP WDR 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 codec, high compression rate, ultra-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
- · 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

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



Technical Specification							Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Camera							Resolution	× 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Image Sensor		1/2.8" 2Megapixel progressive CMOS					Bit Rate Control	CBR/VBR
Effective Pixels		1920 (H) ×1080 (V)					Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps
ROM		128 MB					Day/Night	Auto(ICR)/Color/B/W
RAM		128 MB					BLC	Yes
Scanning System		Progressive					HLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s=1/100000 s					WDR	120 dB
Min. Illumination		0.002 Lux @F1.6					White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR Distance		30 m (98.4 ft)					Gain Control	Auto/Manual
IR On/Off Control		Auto/Manual					Noise Reduction	3D DNR
IR LEDs Number	IR LEDs Number						Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation	on Range	Pan: 0°–355° Tilt: 0°–65°					Region of Interest(RoI)	Yes (4 areas)
		Rotation: 0°–355°					Smart IR	Yes
Lens Type		Fixed-focal					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with $1080p$ resolution and lower.)
Mount Type		M12					Mirror	Yes
Focal Length		2.8 mm					Privacy Masking	4 areas
-		3.6 mm					Network	
Max. Aperture		F1.6					Network	RJ-45 (10/100 Base-T)
Field of View		2.8 mm: Pan:106° Tilt: 56° Diagonal: 126° 3.6 mm:					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
		Pan:87° Tilt: 46° Diagonal: 104°					Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Iris Type		Fixed aperture					User/Host	20
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)					Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
	Lens	Detect 38.6 m	Observe 15.4 m	Recognize 7.7 m	Identify 3.9 m		Browser	IE Chrome Firefox
DORI Distance	2.8 mm	(126.6 ft)	(50.5 ft)	(25.3 ft)	(12.8 ft)		Management Software	Smart PSS; DSS; DMSS
	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)		Mobile Phone	IOS; Android
Smart Event	:						Certification	
General IVS Analytics		Tripwire; intrusion					Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Video								
Video Compression		H.265; H.264; H.264B; MJPEG						UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Smart Codec		Yes					Power	
Video Frame Rate		Main stream:					Power Supply	12V DC/PoE (802.3af)
		1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25fps)					Power Consumption	< 5.4W
		704 × 576 (1 fps-25fps) 704 × 480 (1 fps-30fps)					Environment	
Stream Capability		2 streams					Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH

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Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67, IK10		
Structure			
Casing	Metal		
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	DH-IPC-HDBW2231EP-S-S2	2MP WDR IR Mini Dome Network Camera, PAL				
Camera	DH-IPC-HDBW2231EN-S-S2	2MP WDR 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				
	PFM900-E	Integrated Mount Tester				
	PFM114	TLC SD Card				

Accessories

Optional:



PFA106

Mount Adapter







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



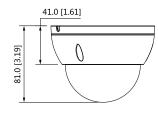
PFM900-E Integrated Mount Tester

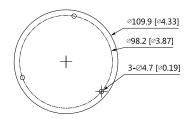


PFM114 TLC SD Card

Junction Mount	Wall Mount	Wall Mount	Pole Mount
PFA136	PFA136+PFA200W	PFB203W	PFB203W+PFA152-E
Ceiling Mount			
PFA106+PFB220C			

Dimensions (mm[inch])







PFA152-E

Pole Mount

PFB220C

Celling Mount