

DH-IPC-HFW2231S-S-S2

2MP WDR IR Bullet Network Camera



- 2MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- Outputs max. 2MP (1920 × 1080) @25/30 fps
- H.265 codec, high compression rate, 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 disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67 protection



System Overview

With upgraded 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, complying to the standards of IP67.

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, 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.

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-HFW2231S-S-S2

Technical Specification

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Camera					
Image Sensor		1/2.8"2Megapixel progressive CMOS			
Effective Pixels		1920 (H) ×1080 (V)			
ROM		128 MB			
RAM		128 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Min. Illumination		0.002 Lux @F1.6			
IR Distance		30 m (98.4 ft)			
IR On/Off Control		Auto/Manual			
IR LEDs Number		1			
Pan/Tilt/Rotation Range		Horizontal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed focal			
Mount Type		M12			
Focal Length		2.8 mm 3.6 mm			
Max. Aperture		F1.6 F1.6			
Field of View		2.8 mm: Horizontal:106° Vertical: 56° Diagonal: 126° 3.6 mm: Horizontal:87° Vertical: 46° Diagonal: 104°			
Iris Type		Fixed aperture			
Close Focus Distance		2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	38.6 m (126.6 ft)	15.4 m (50.5 ft)	7.7 m (25.3 ft)	3.9 m (12.8 ft)
	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)
Smart event					

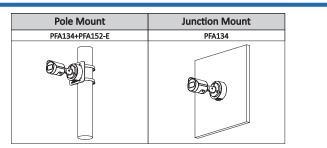
General IVS Analytics	Tripwire; intrusion			
Video				
Video Compression	H.265; H.264; H.264B; MJPEG			
Smart Codec	H.264: Yes H.265: Yes			
Video Frame Rate	50 Hz Main stream (1920 × 1080@25 fps); sub stream(704 × 576@25 fps) 60 Hz Main stream (1920 × 1080@30 fps), sub stream(704 × 480@30 fps)			

Stream Capability	2 streams			
Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			
Bit Rate Control	CBR; VBR			
Video Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps			
Day/Night	ICR auto 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	OFF/ON (4 areas, rectangular)			
Region of Interest(RoI)	Yes (4 areas)			
Smart IR	Yse			
Image Rotation	0°/90°/180°/270° (Support 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 (support max. 256 GB); NFS			
Browser	IE; Chrome; 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/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07			
Power				
Power Supply	12V DC/PoE			
Power Consumption	Basic power consumption: 2W (12V DC); 2.6W (PoE) Max. power consumption (H.265 + max. resolution + max. stream + WDR + IR full intensity + IVS enabled): 4.2W (12V DC); 4.9W (PoE)			

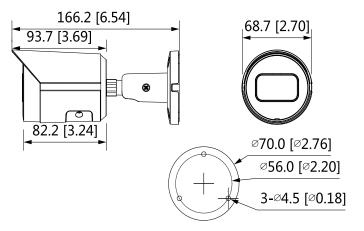
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Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than≤95%			
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)			
Ingress Protection	IP67			
Structure				
Casing	Metal			
Dimensions	166.2 mm × Φ70 mm (6.5" × Φ2.8")			
Net Weight	0.48 kg (1.1 lb)			
Gross Weight	0.57 kg (1.3 lb)			



Dimensions (mm[inch])



Ordering Information

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Туре	Part Number	Description	
2MP Camera	DH-IPC- HFW2231SP-S-S2	2MP WDR IR Bullet Network Camera,PAL	
	DH-IPC- HFW2231SN-S-S2	2MP WDR IR Bullet Network Camera,NTSC	
Accessories	PFA134	Junction Box	
	PFA152-E	Pole 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:



PFA134 Junction Box



1 in 12

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



PFA152-E Pole Mount



PFM900-E Integrated mount tester





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PFM114 TLC SD card

