

# DH-IPC-HFW2230S-S-S2

2MP IR Bullet Network Camera



- 2MP, 1/2.7" 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, DWDR, 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 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.

### 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-HFW2230S-S-S2

## **Technical Specification**

Camera				
Image Sensor	1/2.7"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	0.005 Lux@F1.6			
IR Distance	30 m (98.43 ft)			
IR On/Off Control	Auto/Manual			
IR LEDs Number	1			
Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 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: Pan: 110.0° Tilt: 59.0° Diagonal: 132.0° 3.6 mm: Pan: 91.0° Tilt: 48.0° Diagonal: 109.0°			
Iris Type	Fixed aperture			
Close Focus Distance	2.8 mm: 0.6 m (1.97 ft) 3.6 mm: 1.1 m (3.61 ft)			
Lens	Detect	Observe	Recognize	Identify
DORI 2.8 mm Distance	37.3 m (122.38 ft)	14.9 m (48.88 ft)	7.5 m (24.61 ft)	3.7 m (12.14 ft)
3.6 mm	53.3 m (174.87 ft)	21.3 m (96.88 ft)	10.7 m (35.10 ft)	5.3 m (17.39 ft)

General IVS Analytics	Tripwire; intrusion
Video	
Video Compression	H.265; H.264; H.264B; MJPEG
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)
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	Auto(ICR)/Color/B/W	
BLC	Yes	
HLC	Yes	
WDR	DWDR	
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	Yes	
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)	
Mirror	Yes	
Privacy Masking	4 areas	
Network		
Network	RJ-45 (10/100 Base-T)	
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	
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec	
User/Host	20	
Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS	
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 (802.3af)	
Power Consumption	< 4.6W	

## Lite Series | DH-IPC-HFW2230S-S-S2

## Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than $\leq$ 95% RH
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67
Structure	
Casing	Metal
Dimensions	166.2 mm × Φ70 mm (6.54" × Φ2.76")
Net Weight	0.48 kg (1.1 lb)
Gross Weight	0.57 kg (1.3 lb)

## **Ordering Information**

Туре	Part Number	Description	
2MP Camera	DH-IPC- HFW2230SP-S-S2	2MP IR Bullet Network Camera,PAL	
	DH-IPC- HFW2230SN-S-S2	2MP IR Bullet Network Camera,NTSC	
Accessories (optional)	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



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



PFA152-E Pole Mount



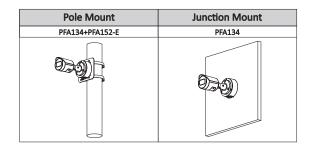
PFM900-E Integrated Mount Tester



DC12V1A Power Adapter



PFM114 TLC SD Card



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## Dimensions (mm[inch])

