

# DH-IPC-HFW2230S-SA-S2

Build-in Mic 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
- · Build-in Mic
- 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.

Technical	Specificatio	n					
Camera	Specificatio					Resolution	1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF
Image Sensor		1/2.7"2Megapixel progressive CMOS					(352 × 288/352 × 240)
Effective Pixels		1920 (H) × 1080 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 Kbps-6144 Kbps H.265: 12 Kbps-6144 Kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s				HLC	Yes
Min. Illuminat		0.005 Lux@F1.6				WDR	DWDR
IR Distance		30 m (98.43 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional
IR On/Off Con			al .			Gain Control	custom Auto/Manual
IR LEDs Number		1				Noise Reduction	3D DNR
IIV EEDS INGIIIDEI		Horizonal: 0	°–360°			Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Vertical: 0°– Rotation: 0°				Region of Interest(RoI)	
Lens							Yes (4 areas)
Lens Type		Fixed				Smart IR	Yes
Mount Type		M12				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
Focal Length		2.8 mm 3.6 mm				Mirror	Yes
Max. Aperture		F1.6 F1.6				Privacy Masking	4 areas
		2.8 mm:	10.0%			Network	
		Horizonal: 1 Vertical: 59. Diagonal: 13	0°			Network	RJ-45 (10/100 Base-T)
Field of View		3.6 mm: Horizonal: 9 Vertical: 48.	1.0° 0°			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
Isia Tuna		Diagonal: 10				Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Iris Type		Fixed aperture  2.8 mm: 0.6 m (1.97 ft)				User/Host	20
Close Focus Distance		3.6 mm: 1.1 m (3.61 ft)				Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NAS
DORI	Lens 2.8 mm	Detect	Observe	Recognize	3.7 m	Browser	IE Chrome Firefox
Distance		(122.38 ft) 53.3 m	(48.88 ft) 21.3 m	(24.61 ft) 10.7 m	(12.14 ft) 5.3 m	Management Software	Smart PSS; DSS; DMSS
	3.6 mm	(174.87 ft)	(96.88 ft)	(35.10 ft)	(17.39 ft)	Mobile Phone	IOS; Android
Smart event						Certification	
General IVS A	nalytics	Intrusion; tr	ipwire				CE-LVD: EN60950-1
Video						Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU
Video Compression		H.265; H.264	4; H.264B; MJP	PEG			FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Smart Codec		Yes				Power	
Video Frame Rate		Main stream		in a)		Power Supply	12V DC/PoE (802.3af)
		Sub stream: 704 × 576 (1	(1 fps-25/30 f	ho)		Power Consumption	<4.6W
		704 × 480 (1				Environment	
Stream Capability		2 streams				Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%

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

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-SA-S2	2MP IR Bullet Network Camera,PAL				
Zivii camera	DH-IPC- HFW2230SN-SA-S2	2MP IR Bullet Network Camera,NTSC				
	PFA134	Junction Box				
	PFA152-E	Pole Mount				
Accessories	PFM321D	DC12V1A Power Adapter				
(optional)	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



PFM321D DC12V1A Power Adapter



PFM114 TLC SD Card

Pole Mount	Junction Mount	
PFA134+PFA152-E	PFA134	





