

DH-IPC-HFW2239S-SA-LED-S2

2MP Lite Full-color Fixed-focal 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, ultra-low bit rate
- Built-in warm lights, max. illumination distance: 30 m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- · Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card and built-in Mic
- 12V DC/PoE power supply
- IP67 protection













Series Overview

With upgraded H.265 encoding technology, Dahua Lite series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 (Supported by some select models).

Functions

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Dahua smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Full-color

With high-performance sensor and large aperture lens, Dahua Full-color technology can display clear colorful image in the environment of ultralow illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

WDR

With advanced Wide Dynamic Range (WDR) technology, Dahua network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

IVS

With advanced video algorithm, Dahua IVS technology supports intelligent functions, such as tripwire and intrusion.

Cyber Security

Dahua network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device.

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 $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.



Technical Sp	ecificatio	on				Bit Rate Control
Camera						Video Bit Rate
Image Sensor		1/2.8" 2Mega	apixel progress	ive CMOS		Day/Night
Max. Resolution		1920 (H) × 1080 (V)			BLC	
ROM		128 MB				HLC
RAM		128 MB				WDR
Scanning System		Progressive				White Balance
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				Gain Control
Minimum Illumination		0.0017 Lux@F1.0			Noise Reduction	
S/N Ratio		> 56 dB			Motion Detection	
Illumination Distance		30 m (98.4 ft)				Region of Interest(Rol)
Illuminator On/Off Control		Auto/Manual			Smart Illumination	
Illuminator Number		1 (Warm light	t)			Ssrt manniation
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90°				Image Rotation
		Rotation: 0°–360°				Mirror
ens		Fixed facel				Privacy Masking
Lens Type		Fixed-focal				Audio
Mount Type		M12 2.8 mm				Built-in MIC
Focal Length		3.6 mm				Audio Compression
Max. Aperture		2.8 mm: F1.0 3.6 mm: F1.0				Alarm
Field of View		2.8 mm: Horizontal 107° × Vertical 55° × Diagonal 127° 3.6 mm: Horizontal 91° × Vertical 47° × Diagonal 109°				Alarm Event
is Type		Fixed				
lose Focus Dist	ance	2.8 mm: 0.9 r 3.6 mm: 1.3 r				Network
	Lens	Detect	Observe	Recognize	Identify	Network
	2.8mm	38.6m	15.4m	7.7 m	3.9 m	SDK and API
ORI Distance	3.6mm	(126.6 ft) 49.7m (163.1 ft)	(50.5 ft) 65.3m (108.6 ft)	(25.3 ft) 32.5m (54.5 ft)	(12.8 ft) 18.0m (27.2 ft)	Cyber Security
mart event						
'S		Tripwire; intri	usion			
'ideo						Protocol
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				Interoperability
Smart Codec		Smart H.265+/ Smart H.264+				User/Host
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps)			Storage	
		704 × 480 (1 fps-30 fps)				Browser
Stream Capability		2 streams				Management Coftware
Resolution		1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)			Management Software Mobile Phone	

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Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps		
Day/Night	Color/B/W		
BLC	Yes		
HLC	Yes		
WDR	120 dB		
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom		
Gain Control	Auto/Manual		
Noise Reduction	3D NR		
Motion Detection	OFF/ON (4 areas, rectangular)		
Region of Interest(RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711A; G.711Mu; G.726		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; audio detection; safety exception		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User/Host	20 (Total bandwidth: 72 M.)		
Storage	Dahua Cloud; FTP; Micro SD card (support max. 256 G); NAS; SFTP		
Browser	IE Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
Mobile Phone	IOS; Android		



Certification

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.0W

Environment

Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 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 (6.5" × Φ2.8")
Net Weight	0.473 kg (1.0 lb)
Gross Weight	0.574 kg (1.3 lb)

Ordering Information Part Number Description Type DH-IPC-HFW2239SP-SA-2MP Lite Full-color Fixed-focal Bullet Network Camera,PAL LED-S2 2MP Camera 2MP Lite Full-color Fixed-focal DH-IPC-HFW2239SN-SA-LED-S2 Bullet Network Camera, NTSC PFA134 Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet LR1002-1ET/1EC 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



PFM321D DC12V1A Power Adapter



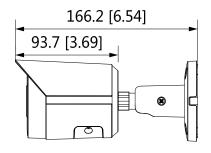
PFM900-E Integrated Mount Tester

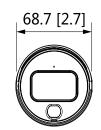


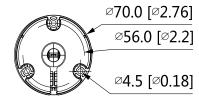
PFM114 TLC SD Card

Pole Mount	Junction Mount
PFA134+PFA152-E	PFA134
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Dimensions (mm[inch])







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