

# DH-IPC-HFW2231S-S-S2

2MP Lite IR 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 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 NR, 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 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.

### **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.

# Starlight

With advanced image processing technology and optical technology, Dahua Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

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



Technical S	Specification						1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 ×
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
Max. Resolution		1920 (H) ×1080 (V)				Video Bit Rate	H.264: 32 Kbps-6144 Kbps
ROM		128 MB					H.265: 12 Kbps-6144 Kbps
RAM		128 MB				Day/Night	Auto(ICR)/Color/B/W
Scanning Syste	em	Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illuminat	ion	0.002 Lux @F1.6				WDR	120 dB
S/N Ratio		> 56 dB				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Illumination D	istance	30 m (98.4 ft)				Gain Control	Auto/Manual
Illuminator Or	n/Off Control	Auto/Manual				Noise Reduction	3D NR
Illuminator Nu	ımber	1 (IR LED)				Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotat	tion Pango	Pan: 0°–360° Tilt: 0°–90°				Region of Interest(RoI)	Yes (4 areas)
rany mity Notat	ion kange	Rotation: 0°–360°				Smart Illumination	Yes
Lens Tyne		Find family				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution and lower.)
Lens Type		Fixed-focal				Mirror	Yes
Mount Type		M12				Privacy Masking	4 areas
Focal Length		2.8 mm 3.6 mm				Alarm	
Max. Aperture	Max. Aperture						No SD card; SD card full; SD card error; network
Field of View		2.8 mm: Horizontal 106° × Vertical 56° × Diagonal 126° 3.6 mm:				Alarm Event	disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception
		Horizontal 87° × Vertical 46° × Diagonal 104°				Network	
Iris Type		Fixed	m /2 0 ft)			Network	RJ-45 (10/100 Base-T)
Close Focus Di	istance	2.8 mm: 0.6 m (2.0 ft) 3.6 mm: 1.2 m (3.9 ft)				SDK and API	Yes
	Lens	Detect	Observe	Recognize	Identify		Video encryption; firmware encryption; configuration
DORI Distance	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)	Cyber Security	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
	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 ever	nt						IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP;
IVS		Tripwire; intrusion				Protocol	RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE;
Video							Bonjour
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream)				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Smart Codec		Smart H.265+/ Smart H.264+				User/Host	20
Smart Court						Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video Frame Rate		Main stream: 1920 × 1080 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25fps) 704 × 480 (1 fps-30fps)				Browser	IE Chrome Firefox
						Management Software	Smart PSS; DSS; DMSS
Stream Capab	Stream Capability					Mobile Phone	IOS; Android

# Certification

CE-LVD: EN62368-1
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	< 4.9W

### Environment

Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)
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)

#### **Ordering Information** Part Number Description Type DH-IPC-2MP Lite IR Fixed-focal Bullet Network HFW2231SP-S-S2 Camera,PAL 2MP Camera 2MP Lite IR Fixed-focal Bullet Network DH-IPC-HFW2231SN-S-S2 Camera,NTSC PFA134 Junction Box PFA152-E Pole Mount PFM321D DC12V1A Power Adapter Accessories (optional) Single-port Long Reach Ethernet over Coax LR1002-1ET/1EC 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	
039		

# Dimensions (mm[inch])



