

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, 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 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.



Technical	Specification	on					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″2Meg	gapixel progre	ssive CMOS			(332 × 266/332 × 240)
Effective Pixels		1920 (H) ×1	080 (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/Manu	al 1/3 s–1/100	0000 s		HLC	Yes
Min. Illumination		0.002 Lux @	PF1.6			WDR	120 dB
IR Distance		30 m (98.4	ft)			White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR On/Off Control		Auto/Manu	al			Gain Control	Auto/Manual
IR LEDs Number		1				Noise Reduction	3D DNR
Pan/Tilt/Rotation Range		Horizontal: Vertical: 0°-	-90°			Motion Detection	OFF/ON (4 areas, rectangular)
, ,		Rotation: 0°	°–360°			Region of Interest(RoI)	Yes (4 areas)
Lens		Fixed				Smart IR	Yes
Lens Type Mount Type		M12				Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1080p resolution.)
Focal Length		2.8 mm 3.6 mm				Mirror	Yes
-		F1.6				Privacy Masking	4 areas
Max. Aperture		F1.6 2.8 mm:				Network	
			106°			Network	RJ-45 (10/100 Base-T)
Field of View		Vertical: 56 Diagonal: 1 3.6 mm: Horizontal: Vertical: 46	26° 87°			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
		Diagonal: 10				Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
Iris Type		Fixed apert 2.8 mm: 0.6				User/Host	20
Close Focus Distance		3.6 mm: 1.2				Edge Storage	Dahua Cloud; FTP; Micro SD Card (support max. 256 GB); NAS
DORI Distance	Lens	Detect	Observe	Recognize	Identify	Browser	IE Chrome
	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)		Firefox
	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)	Management Software	Smart PSS; DSS; DMSS
Smart event						Mobile Phone	IOS; Android
General IVS Analytics		Intrusion; to	ripwire			Certification	
Video						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
Video Compression		H.265; H.26	4; H.264B; MJ	PEG			
Smart Codec		Yes				Davisa	UL/CUL: UL0095U-1 CAN/CSA C22.2 NO.0095U-1-U/
Video Frame Rate		Main strear				Power Supply	13V DC/Dec (903 3ef)
		Sub stream		fps)		Power Supply	12V DC/PoE (802.3af)
		704 × 576 (1 704 × 480 (1 fps-25 fps) 1 fps-30 fps)			Power Consumption	< 4.9W
						Environment	4000
Stream Capability		2 streams				Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95%

Lite Series | DH-IPC-HFW2231S-S-S2

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)

Ordering Information						
Туре	Part Number	Description				
2MP Camera	DH-IPC- HFW2231SP-S-S2	2MP WDR IR Bullet Network Camera,PAL				
ziiii Gainera	DH-IPC- HFW2231SN-S-S2	2MP WDR 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	

Dimensions (mm[inch])



