

IMAX-IPC-HFW2431S-S-S2

4MP WDR IR Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30fps, Max. supports 4MP (2688 × 1520)@20 fps
- H.265 codec, high compression ration, 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 disconnected, IP conflict, illegal access, voltage detection
- · Supports max. 256 GB Micro SD card
- 12V DC/PoE power support
- IP67 protection grade













System Overview

With upgraded H.265 encoding technology, Imax 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, Imaxc 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)

Imaxcampro 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

Imaxcampro 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, Imaxcampro 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 | IMAX-IPC-HFW2431S-S-S2

Technical Specification							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 ×
Camera						Resolution	1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352
Image Sensor		1/3" 4Megapixel progressive CMOS				000000000000000000000000000000000000000	× 240)
Effective Pixels		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR H.264: 32 Kbps-6144 Kbps
ROM		128 MB				Video Bit Rate	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. Illumination		0.008 Lux@F1.6				WDR	120 dB
IR Distance		30 m (98.43 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
IR On/Off Con	IR On/Off Control		al			Gain Control	Auto/Manual
IR LEDs Numb	IR LEDs Number					Noise Reduction	3D DNR
Pan/Tilt/Rotation Range		Pan: 0°–360 Tilt: 0°–90°	0			Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°–360°				Region of Interest(RoI)	Yes (4 areas)
Lens		5: 16 1				Smart IR	Yes
Lens Type		Fixed-focal				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Mount Type		M12				Mirror	Yes
Focal Length		2.8 mm 3.6 mm				Privacy Masking	4 areas
Max. Aperture		F1.6 F1.6				Network	
		2.8 mm: Pan: 102.0°				Network	RJ-45 (10/100 Base-T)
Field of View		Tilt: 55.0° Diagonal: 121.0° 3.6 mm: Pan: 84.0° Tilt: 45.0°				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
Iris Tuno		Diagonal: 100.0°				Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Iris Type		Fixed aperture 2.8 mm: 0.9 m (2.95 ft)				User/Host	20
Close Focus Distance		3.6 mm: 1.6 m (3.61 ft)				Edge Storage	Dahua Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
DORI Distance	Lens 2.8 mm	Detect 56 m (183.73 ft)	Observe 22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)	Browser	IE Chrome Firefox
	3.6 mm	80 m (262.47 ft)	32.0 m (104.99 ft)	16.0 m (52.49 ft)	8.0 m (26.25 ft)	Management Software	Smart PSS; DSS; DMSS
Smart event		(202.47 10)	(104.3314)	(32.43 10)	(20.23 11)	Mobile Phone	IOS; Android
General IVS Analytics		Tripwire; intrusion				Certification	
Video	Video						CE-LVD: EN60950-1
Video Compression		H.265; H.264; H.264B; MJPEG				Certifications	CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Smart Codec		Yes				Dowor	UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
Video Frame Rate		Main stream 2688 × 1520	n:) (1 fps-20 fps)			Power Supply	12\/ DC/DoE (902 2~f)
			(1 fps-25/30 f	ps)		Power Supply	12V DC/PoE (802.3af)
		704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Power Consumption Environment	< 5W
Character Complete						Environment	1000
Stream Capability		2 stream				Operating Conditions	-40°C to +60°C (-40°F to +140°F)/less than ≤ 95% RH

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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				
4MP Camera	DH-IPC- HFW2431SP-S-S2	4MP WDR IR Bullet Network Camera, PAL				
camera	DH-IPC- HFW2431SN-S-S2	4MP 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 Extende



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])

