

IMAX-IPC-HFW1431S

4MP WDR IR Mini-Bullet Camera



- · 1/3" 4Megapixel progressive CMOS
- · H.265 & H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3M(2304×1296)
- · WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- \cdot Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6 mm optional)
- · Max IR LEDs Length 30m
- · IP67, PoE











System Overview

The IR Megapixel Fixed camera delivers 4MP resolution with a 2.8mm/3.6mm fixed lens.The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications at an affordable price.

Functions

Smart Codec (H.265+ & H.264+)

Smart Codec is the optimized implementation of standard video compression (H.265 & H.264) that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart Codec technology reduces bit rate and storage requirements by up to 70% when compared to the standard video compression.

Intelligent Video Analysis (IVS)

Imaxcampro camera is equipped with a built-in intelligent analytic algorithm based on video, which can realize intelligent functions like Tripwire and Intrusion, to quickly and accurately respond to monitoring events in specific area, It can enhance monitoring efficiency. In addition, the camera supports intelligent tamper detection, which is to generate warning message via detecting dramatic scene change and to guarantee effective video surveillance.

Wide Dynamic Range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 30m (98ft).

Protection (IP67, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) , the camera is the choice for installation in even the most unforgiving environments.

Environmental

Imaxcampro cameras operate in extreme temperature environments, rated for use in temperatures from-30° C to +60° C (-22° F to +140° F) with 95% humidity.

Image Flip

Capturing unnecessary data such as surrounding hallway walls can increase storage requirements without any added value. The image flip feature allows the camera's image to be rotated in 90° increments for better video optimization.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.



Technical Specification					Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps	
Camera			Day/Night	Auto(ICR) / Color / B/W			
Image Sensor		1/3" 4Megapixel progresive CMOS				BLC Mode	BLC / HLC / WDR(120dB)
Effective Pixels		2688(H)x1520(V)				White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
RAM/ROM		512MB/32MB				Gain Control	Auto/Manual
Scanning System		Progressive				Noise Reduction	3D DNR
Electronic Shutter Speed		Auto/Manual, 1/3~1/100000s				Motion Detection	Off / On (4 Zone, Rectangle)
Minimum Illumination		0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE)				Region of Interest Electronic Image Stabilization	Off / On (4 Zone)
a fa a a a		OLux/F2.0(IR on)				(EIS)	N/A
S/N Ratio		More than 50dB				Smart IR	Support
IR Distance		Distance up to 30m(98ft)				Digital Zoom	16x
IR On/Off Control		Auto/ Manual				Flip	0°/90°/180°/270°
IR LEDs		18				Mirror	Off / On
Lens						Privacy Masking	Off / On (4 Area, Rectangle)
Lens Type		Fixed				Audio	
Mount Type		Board-in				Compression	N/A
Focal Length		2.8 mm (3.6 mm optional)				Network	
Max. Aperture		F2.0/F2.0				Ethernet	RJ-45 (10/100Base-T)
Angle of View Focus Control		H:104°/87°, V:57°/48° Fixed				Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP;
Close Focus Distance		N/A				Laborator de Hiller	NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TL
0.000 1 0000 2.00	Lens	Detect	Observe	Recognize	Identify	Interoperability	ONVIF Profile S&G, API
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)	Streaming Method	Unicast / Multicast
20111 Distance	3.6 mm	80m(262ft)	32m(105ft)		8m(26ft)	Max. User Access	10 Users / 20 Users
PTZ	3.0 11111	00111(20211)	32111(10311)	10111(3211)	om(zort)	Edge Storage	NAS Local PC for instant recording
Pan/Tilt Range		Pan:0° ~360° ;	Til+·∩° ~a∩° ·₽a	otation:0° ~36	:O°	Web Viewer	IE, Chrome, Firefox, Safari
		raii.0 300 ,	THE.O 30 , NO	reaction.0 Sc		Management Software	Smart PSS, DSS, DMSS
Intelligence		Motion detect	Metion detection Video tempering Scope changing			Smart Phone	IOS, Android
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly				Certifications	
IVS		Tripwire, Intru	sion			Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B
Video						Interface	
Compression		H.265/H.264H/MJPEG(Sub Stream)				Video Interface	N/A
Smart Codec		Support H.265+/H.264+				Audio Interface	N/A
Streaming Capability		2 Streams				RS485	N/A
Resolution		4M(2688x1520)/3M(2304×1296)/1080P(19 20×1080)/720P(1280×720)/VGA(640×480)/ D1(704×576/704×480)/CIF(352×288/352×240)				Alarm	N/A
		Main Stream: 4M(1 ~ 20fps)/3M (1 ~ 25/30fps)				Electrical	
Frame Rate		Sub Stream: D	1(1 ~ 25/30fps)		Power Supply	DC12V, PoE(IEEE 802.3af)(Class 0)
Bit Rate Control		CBR/VBR				Power Consumption	< 5.5W

Lite Series | IMAX-IPC-HFW1431S

Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
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Ingress Protection	IP67
Vandal Resistance	N/A

Construction

Casing	Metal+Plastic
Dimensions	Φ70mm×164.7mm(2.76''x6.49'')
Net Weight	0.38Kg(0.84lb)
Gross Weight	0.44Kg(0.97lb)

Ordering Information					
Туре	Part Number	Description			
	DH-IPC-HFW1431SP -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,PAL			
	DH-IPC-HFW1431SN -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,NTSC			
	IPC-HFW1431SP -280B	4MP IR Mini-Bullet Network Camera, 2.8mm,PAL			
4MP camera	IPC-HFW1431SN -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,NTSC			
4IVIP Camera	DH-IPC-HFW1431SP -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,PAL			
	DH-IPC-HFW1431SN -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,NTSC			
	IPC-HFW1431SP -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,PAL			
	IPC-HFW1431SN -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,NTSC			
	PFA134	Junction box			
Accessories (optional)	PFA152-E	Pole mount			
	PFA151	Corner mount			

Accessories

Optional:







PFA134 Junction Box

PFA152-E Pole mount

PFA151 Corner mount

Corner Mount	Pole Mount	
PFA134 + PFA151	PFA134 + PFA152-E	
Junction Mount		
PFA134		

Dimensions (mm/inch)

