

DH-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
- · 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 2MP/4MP/5MP 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 H.265+

Smart H.265+ is the optimized implementation of the H.265 codec 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 H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Intelligent Video analysis (IVS)

Dahua 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 $\pm 10\%$ 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

Dahua 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 S	pecification	1			
Camera					
Image Sensor		1/3" 4Megapix	cel progresive	CMOS	
Effective Pixels		2688(H)x1520	2688(H)x1520(V)		
RAM/ROM		512MB/32MB	512MB/32MB		
Scanning System		Progressive	Progressive		
Electronic Shutter Speed		Auto/Manual,	Auto/Manual, 1/3~1/100000s		
Minimum Illumination		0.3Lux/F2.0(C	0.08Lux/F2.0(Color,1/3s,30IRE) 0.3Lux/F2.0(Color,1/30s,30IRE) 0Lux/F2.0(IR on)		
S/N Ratio		More than 500	More than 50dB		
IR Distance		Distance up to	Distance up to 30m(98ft)		
IR On/Off Control		Auto/ Manual	Auto/ Manual		
IR LEDs		18	18		
Lens					
Lens Type		Fixed	Fixed		
Mount Type		Board-in	Board-in		
Focal Length		2.8 mm (3.6 m	2.8 mm (3.6 mm optional)		
Max. Aperture		F2.0/F2.0	F2.0/F2.0		
Angle of View		H:104°/87°, V:5	57°/48°		
Focus Control		Fixed			
Close Focus Dist	ance	N/A			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	63m(207ft)	25m(82ft)	13m(43ft)	6m(20ft)
	3.6 mm	80m(262ft)	32m(105ft)	16m(52ft)	8m(26ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360° ;	Tilt:0° ~90° ;Rc	otation:0° ~36	0°
Intelligence					
IVS		Tripwire, Intru	sion		
Video					
Compression		H.265+/H.265,	H.265+/H.265/H.264+/H.264		
Streaming Capal	oility	2 Streams	2 Streams		
Resolution		1080P(1920×1	4M(2688×1520/2560×1440)/3M(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)		
Frame Rate		4M(1 ~ 20fps)/	4M(1 ~ 20fps)/3M (1 ~ 25/30fps)		
Traine Nate			D1/CIF(1 ~ 25/30fps)		
Bit Rate Control		CBR/VBR			
Bit Rate			H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps		
Day/Night		Auto(ICR) / Co	Auto(ICR) / Color / B/W		
BLC Mode		BLC / HLC / WI	DR(120dB)		

White Balance	Auto/Natural/Street Lamp/Outdoor/Manual	
Gain Control	Auto/Manual	
Noise Reduction	3D DNR	
Motion Detetion	Off / On (4 Zone, Rectangle)	
Region of Interest	Off / On (4 Zone)	
Electronic Image Stabilization (EIS)	N/A	
Smart IR	Support	
Digital Zoom	16x	
Flip	0°/90°/180°/270°	
Mirror	Off/On	
Privacy Masking	Off / On (4 Area, Rectangle)	
Audio		
Compression	N/A	
Network		
Ethernet	RJ-45 (10/100Base-T)	
Protocol	HTTP;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP;FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;SNMP;QoS;UPnP;NTP	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users / 20 Users	
Edge Storage	NAS Local PC for instant recording	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS,Easy4ip	
Smart Phone	IOS, Android	
Certifications		
Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B	
Interface		
Video Interface	N/A	
Audio Interface	N/A	
RS485	N/A	
Alarm	N/A	
Electrical		
Power Supply	DC12V PoE(802.3af)(Class 0)	
Power Consumption	<5.7W	

Environmental

Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +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			
4MP camera	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			
	IPC-HFW1431SN -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,NTSC			
	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			
Accessories (optional)	PFA134	Junction box			
	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)





