

# DH-IPC-HFW1431S

4MP WDR IR Mini-Bullet Camera

www.PadVokam.by



- · 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)

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  $\pm 25\%$  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

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 Flig

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  $90^\circ$  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 <sub>1</sub>	necification				
Camera					
Image Sensor		1/3" 4Megapixel progresive CMOS			
Effective Pixels		2688(H)x1520(V)			
		512MB/32MB			
RAM/ROM		Progressive			
Scanning System		S			
Electronic Shutter Speed  Minimum Illumination		Auto/Manual, 1/3~1/100000s  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 50dB			
IR Distance		Distance up to	Distance up to 30m(98ft)		
IR On/Off Contro	ol	Auto/ Manual			
IR LEDs		18			
Lens					
Lens Type		Fixed	Fixed		
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mi	2.8 mm (3.6 mm optional)		
Max. Aperture		F2.0/F2.0			
Angle of View		H:104°/87°, V:57°/48°			
Focus Control		Fixed			
Close Focus Distance		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° ;1	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°		
Intelligence					
Event Trigger		Motion detection, Video tampering, Scene changing, Network disconnection, Ip address conflict, Illegal access, Storage anomaly			
IVS	IVS		Tripwire, Intrusion		
Video					
Compression		H.265/H.264H/MJPEG(Sub Stream)			
Smart Codec		Support H.265+/H.264+			
Streaming Capability		2 Streams			
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)			
Framo Pata		Main Stream: 4M(1 ~ 20fps)/3M (1 ~ 25/30fps)			
Frame Rate		Sub Stream: D1(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR			

Bit Rate	H.265: 12K ~ 8448Kbps H.264: 32K ~ 10240Kbps		
Day/Night	Auto(ICR) / Color / B/W		
BLC Mode	BLC / HLC / WDR(120dB)		
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual		
Gain Control	Auto/Manual		
Noise Reduction	3D DNR		
Motion Detection	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;HTTPS;TCP;ARP;RTSP;RTP;RTCP;UDP;SMTP; FTP;DHCP;DNS;DDNS;PPPoE;IPV4/V6;QoS;UPnP; NTP;Bonjour;IEEE 802.1X;Multicast;ICMP;IGMP;TLS		
Interoperability	ONVIF Profile S&G, API		
Streaming Method	Unicast / Multicast		
Max. User Access	10 Users / 20 Users		
Edge Storage			
	NAS Local PC for instant recording		
Web Viewer			
Web Viewer  Management Software	Local PC for instant recording		
	Local PC for instant recording  IE, Chrome, Firefox, Safari		
Management Software	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS		
Management Software Smart Phone	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS		
Management Software Smart Phone Certifications	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UL:UL60950-1		
Management Software  Smart Phone  Certifications  Certifications	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UL:UL60950-1		
Management Software Smart Phone Certifications Certifications Interface	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B		
Management Software Smart Phone Certifications Certifications Interface Video Interface	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UI:UI60950-1 FCC: FCC Part 15 Subpart B		
Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UI:UI.60950-1 FCC: FCC Part 15 Subpart B  N/A  N/A		
Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface RS485	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B  N/A  N/A  N/A		
Management Software Smart Phone Certifications Certifications Interface Video Interface Audio Interface RS485 Alarm	Local PC for instant recording  IE, Chrome, Firefox, Safari  Smart PSS, DSS, DMSS  IOS, Android  CE (EN 60950:2000) UI:UL60950-1 FCC: FCC Part 15 Subpart B  N/A  N/A  N/A		

< 5.5W

Power Consumption

#### 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 x Pole mount

PFA151 Corner mount

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

# Dimensions (mm/inch)



