

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
- \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 Mini-Bullet camera delivers 4MP resolution with a choice of 2.8mm, 3.6mm lens options. The camera's elegant blend of aesthetics combined with its compact form factor provides an excellent choice for a variety of small to mid-size, indoor/outdoor applications at an affordable price.

Functions

True Day/Night

A day/night mechanical IR cut filter makes this camera ideal for applications with fluctuating lighting conditions, delivering color images during the day and automatically switching to monochrome as the scene darkens

Regions of interest

Regions of Interest (ROI) is a user defined feature that allows the operator to monitor specific areas of a scene while still maintaining overall situational awareness of less important areas

Smart IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDS from whiting 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).

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.

Environmental

With a temperature range of -30 °C to +60 °C (-22°F to +140 °F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

Protection

Supporting $\pm 10\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.

Interoperability

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

HEVC (H.265)

H.265 ITU-T VCEG is a new video coding standard. H.265 Following standard developed around the existing video coding standard H.264 , some retain the original technology , while some of the relevant technology to improve the new technology uses advanced technology to improve the relationship between the code stream , encoding quality , and the delay between algorithm complexity , optimize settings specific contents include : Improve compression efficiency , improve the robustness and error recovery capabilities, real-time to reduce the delay, reduce channel acquisition time and a random access delay , reduce complexity , etc



Technical Specification					
Camera					
Image Sensor		1/3" 3Megapixel progresive CMOS			
Effective Pixels		2688(H)x1520(V)			
RAM/ROM		512MB/32MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		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 45dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		18			
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		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 Dista	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°	;Rotation:0° ^	'360°
Video					
Compression		H.265+/H.265/H.264+/H.264			
Streaming Capab	pility	2 Streams			
Resolution		4M(2688x1520/2560x1440)/3M(2304×1296)/ 1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/ CIF(352×288/352×240)			
Frame Rate		4M(1 ~ 20fps)/3M (1 ~ 25/30fps)			
rrame Rate		D1/CIF(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 Detetion	Off / On (4 Zone, Rectangle)	
Region of Interest	Off / On (4 Zone)	
Electronic Image	Support	
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	20 Users	
Edge Storage	NAS Local PC for instant recording	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS,DMSS	
Smart Phone	iPhone, iPad, Android Phone	
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 ~ +55° C (-22° F ~ +131° 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		
	PFA150	Pole mount		
	PFA151	Corner mount		

Accessories

Optional:







PFA134 Junction Box

PFA15 K Pole Mo

PFA151 Corner Mou

Corner Mount	Pole Mount
PFA134 + PFA151	PFA134 + PFA150
Junction Mount	
PFA134	

Dimensions (mm/inch)



