

DH-IPC-HFW1420S

4MP Network IR Mini-Bullet Camera

Contraction of the second seco

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.

· 1/3" 4Megapixel progressive CMOS

- · H.264+ & H.264 dual-stream encoding
- · 20fps@4M(2688×1520) &25/30fps@3M(2304×1296)
- · DWDR, 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



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

Smart H.264+

Delivering high quality video without straining the network, Smart H.264+ is the optimized implementation of H.264. The Smart H.264+ encoding platform includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing a savings of up to 70% of bandwidth and storage when compared with standard H.264.

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.

Lite Series | DH-IPC-HFW1420S

Technical Specification					
Camera					
Image Sensor		1/3" 4Megapixel progresive CMOS			
Effective Pixels		2688H)x1520(V)			
RAM/ROM		256MB/16MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.31Lux/F2.2(Color), 0Lux/F2.2(IR on)			
S/N Ratio		More than 40dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		24			
Lens	Lens				
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mm optional)			
Max. Aperture		F2.0/F2.2			
Angle of View		H:106°/83°, V:56°/44°			
Focus Control		Fixed			
Close Focus Distance		N/A	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.264+/H.264			
Streaming Capability		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)/2M (1 ~ 25/30fps) D1/CIF(1 ~ 25/30fps)			
Bit Rate Control		CBR/VBR			
Bit Rate		H264H:80K ~ 10240Kbps			
Day/Night		Auto(ICR) / Color / B/W			
BLC Mode		BLC / HLC / DWDR			

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;HTTPs;TCP;ARP;RTSP;RTP;UDP;SMTP;FTP; DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP;NTP; Bonjour;802.1x;Multicast;ICMP;IGMP;	
Interoperability	ONVIF, PSIA, CGI	
Streaming Method	Unicast / Multicast	
Max. User Access	10 Users/20 Users	
Edge Storage	NAS(Network Attached Storage) Local PC for instant recording	
Web Viewer	IE, Chrome, Firefox, Safari	
Management Software	Smart PSS, DSS, Easy4ip	
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	<4.3W	

Lite Series | DH-IPC-HFW1420S

Ordering Information

Environmental	
Operating Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
Strorage Conditions	-30° C $^{\sim}$ +60° C (-22° F $^{\sim}$ +140° F) / Less than 95% RH
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)

Accessories

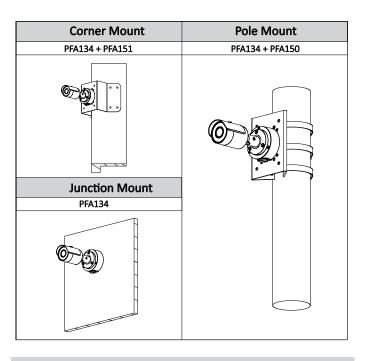
Optional:



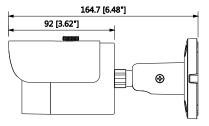


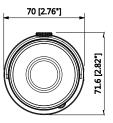
PFA151 Corner Mount

PFA150 Pole Mount



Dimensions (mm/inch)







Туре	Part Number	Description
4MP camera	DH-IPC-HFW1420SP -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,PAL
	DH-IPC-HFW1420SN -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,NTSC
	IPC-HFW1420SP -280B	4MP IR Mini-Bullet Network Camera, 2.8mm,PAL
	IPC-HFW1420SN -0280B	4MP IR Mini-Bullet Network Camera, 2.8mm,NTSC
	DH-IPC-HFW1420SP -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,PAL
	DH-IPC-HFW1420SN -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,NTSC
	IPC-HFW1420SP -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,PAL
	IPC-HFW1420SN -0360B	4MP IR Mini-Bullet Network Camera, 3.6mm,NTSC
Accessories (optional)	PFA134	Junction box
	PFA150	Pole mount
	PFA151	Corner mount