

# DH-IPC-HFW1020S

1MP IR Mini-Bullet Network Camera



System Overview

The IR Megapixel Fixed Mini-Bullet camera delivers 1MP resolution with a choice of 2.8mm or 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.

- · 1/4" 1Megapixel progressive CMOS
- · H.264+ & H.264 dual-stream encoding
- · 25/30fps@720P(1280×720)
- · DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- $\cdot$  Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- · 2.8 mm fixed lens (3.6mm 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.



Technical Sp					
Camera					
Image Sensor		1/4" 1Megapixel progresive CMOS			
Effective Pixels		1280(H) x720(V)			
RAM/ROM		256MB/16MB	256MB/16MB		
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual, 1/3(4)~1/100000s			
Minimum Illumination		0.5Lux/F2.5(Color), 0Lux/F2.5(IR on)			
S/N Ratio		More than 50dB			
IR Distance		Distance up to 30m(98ft)			
IR On/Off Control		Auto/ Manual			
IR LEDs		18	18		
Lens					
Lens Type		Fixed			
Mount Type		Board-in			
Focal Length		2.8 mm (3.6 mm optional)			
Max. Aperture		F2.5/F2.5			
Angle of View		H:85°/57°, V:44°/31°			
Focus Control		Fixed			
Close Focus Distance		N/A			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	43.6m(143ft)	17.4m(57ft)	8.7m(29ft)	4.4m(14ft)
	3.6 mm	48m(157ft)	19.2m(63t)	9.6m(31ft)	4.8m(16ft)
PTZ					
Pan/Tilt Range		Pan:0° ~360° ;	;Tilt:0° ~90° ;F	Rotation:0° ~3	60°
Video					
Compression		H.264+/H.264			
Streaming Capability		2 Streams			
Resolution		720P(1280×720)/D1(704×576/704×480)/ CIF(352×288/352×240)			
		720P (1 ~ 25/30fps)			
rianie Kate	Frame Rate		D1/CIF(1 ~ 25/30fps)		
Bit Rate Control		CBR/VBR			
Bit Rate		H264:24K ~ 8192Kbps			
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	<5.8W			

## 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	Ф70mm×164.7mm(2.76''x6.49'')
Net Weight	0.38Kg(0.84lb)
Gross Weight	0.44Kg(0.97lb)

Ordering Information				
Туре	Part Number	Description		
1MP camera	DH-IPC-HFW1020SP -0280B	1MP IR Mini-Bullet Network Camera, 2.8mm,PAL		
	DH-IPC-HFW1020SN -0280B	1MP IR Mini-Bullet Network Camera, 2.8mm,NTSC		
	IPC-HFW1020SP -0280B	1MP IR Mini-Bullet Network Camera, 2.8mm,PAL		
	IPC-HFW1020SN -0280B	1MP IR Mini-Bullet Network Camera, 2.8mm,NTSC		
	DH-IPC-HFW1020SP -0360B	1MP IR Mini-Bullet Network Camera, 3.6mm,PAL		
	DH-IPC-HFW1020SN -0360B	1MP IR Mini-Bullet Network Camera, 3.6mm,NTSC		
	IPC-HFW1020SP -0360B	1MP IR Mini-Bullet Network Camera, 3.6mm,PAL		
	IPC-HFW1020SN -0360B	1MP IR Mini-Bullet Network Camera, 3.6mm,NTSC		
Accessories (optional)	PFA134	Junction box		
	PFA150	Pole mount		
	PFA151	Corner mount		

## Accessories

# Optional:







PFA134 Junction Box

PFA150 Pole Mount

Corner Mou

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

# Dimensions (mm/inch)



