DH-IPC-HFW1220S

2MP IR Mini-Bullet Network Camera

- 1/2.9” 2Megapixel progressive CMOS
- H.264+ & H.264 dual-stream encoding
- 25/30fps@1080P(1920×1080)
- DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- 2.8 mm fixed lens (3.6mm optional)
- Max IR LEDs Length 30m
- IP67, PoE

System Overview

The IR Megapixel Fixed Mini-Bullet camera delivers 2MP 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.

Protection

Supporting ±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 Specification

Camera

Image Sensor	1/2.9" 2Megapixel progresive CMOS
Effective Pixels	1920(H) x1080(V)
RAM/ROM	256MB/16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Minimum Illumination	0.1Lux/F2.0(Color), 0Lux/F2.0(IR on)
S/N Ratio	More than 50dB
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:101°/83°, V:57°/44°				
Focus Control	Fixed				
Close Focus Distance	N/A				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	45m(147ft)	18m(59ft)	9m(30ft)	5m(16ft)
	3.6 mm	57m(187ft)	23m(75ft)	11m(33ft)	6m(20ft)

PTZ

Pan/Tilt Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°

Video

Compression	H.264+/H.264
Streaming Capability	2 Streams
Resolution	1080P(1920×1080)/720P(1280×720)/ D1(704×576/704×480)/CIF(352×288/352×240)
Frame Rate	2M (1 ~ 25/30fps)s)
	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	<6.4W

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	Φ70mm×164.7mm(2.76"x6.49")
Net Weight	0.38Kg(0.84lb)
Gross Weight	0.44Kg(0.97lb)

Ordering Information

Type	Part Number	Description
2MP camera	DH-IPC-HFW1220SP-0280B	2MP IR Mini-Bullet Network Camera, 2.8mm,PAL
	DH-IPC-HFW1220SN-0280B	2MP IR Mini-Bullet Network Camera, 2.8mm,NTSC
	IPC-HFW1220SP-0280B	2MP IR Mini-Bullet Network Camera, 2.8mm,PAL
	IPC-HFW1220SN-0280B	2MP IR Mini-Bullet Network Camera, 2.8mm, NTSC
	DH-IPC-HFW1220SP-0360B	2MP IR Mini-Bullet Network Camera, 3.6mm,PAL
	DH-IPC-HFW1220SN-0360B	2MP IR Mini-Bullet Network Camera, 3.6mm,NTSC
	IPC-HFW1220SP-0360B	2MP IR Mini-Bullet Network Camera, 3.6mm,PAL
	IPC-HFW1220SN-0360B	2MP IR Mini-Bullet Network Camera, 3.6mm,NTSC
Accessories (optional)	PFA134	Junction box
	PFA150	Pole mount
	PFA151	Corner mountm

Accessories

Optional:

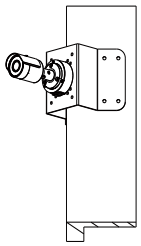
PFA134
Junction Box

PFA150
Pole Mount

PFA151
Corner Mount

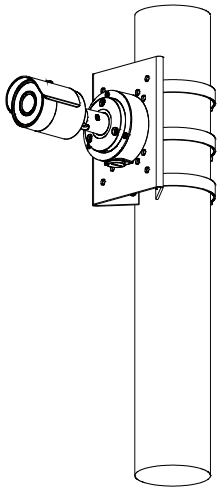
Corner Mount

PFA134 + PFA151



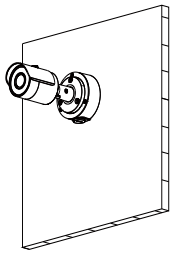
Pole Mount

PFA134 + PFA150

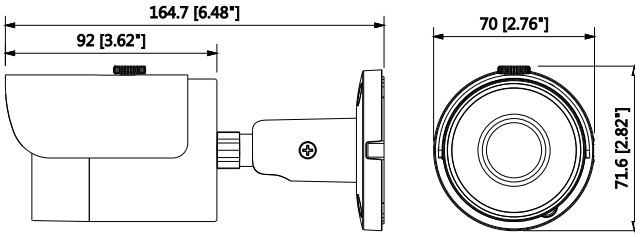


Junction Mount

PFA134



Dimensions (mm/inch)



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