

DH-IPC-HFW1420S

4MP Network Mini IR Bullet Camera



- .1/3" 4Megapixel progressive scan CMOS
- . H.264+ & H.264 dual-stream encoding
- . Max 20fps@4M(2688x1520)&25/30fps@ 3MP(2304x1296)
- .DWDR, Day/Night(ICR), 3DNR, AWB, AGC, BLC
- .Multiple network monitoring: Web viewer, CMS(DSS/PSS) & DMSS
- .3.6mm fixed lens (6mm optional)
- .Max. IR LEDs Length 30m
- .P67, PoE



System Overview

The IR Fixed Mini-Bullet camera delivers 4MP resolution with a choice of 2.8mm, 3.6mm, or 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

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust to IP67 standards, making it suitable for indoor or outdoor environments.

Supporting $\pm 25\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 8KV lightning rating provides protection against the camera and its structure from the effects of lightning.

Streaming

With a choice of unicast or multicast streaming, bandwidth-efficient viewing, recording and third-party video management can easily be achieved. Dual streaming enables bandwidth-efficient viewing and recording. Depending on the resolution and frame rate selected on the first stream, the second stream provides a copy at a lower resolution.

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 | 1/3" 4Megapixel progressive scan CMOS |
| Effective Pixels | 2688(H) × 1520(V) |
| RAM/ROM | 256MB/16MB |
| Scanning System | Progressive |
| 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 | 3.6mm(6mm optional) |
| Max. Aperture | F2.1 |
| Angle of View | H:77° /48°; V:41° ~28° |
| Focus Control | Manual |
| Close Focus Distance | N/A |

PTZ

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

Video

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|----------------------|---|
| Compression | H.264+ / H.264 |
| Streaming Capability | 2 Streams |
| Resolution | 4MP(2688×1520)/3M(2304×1296 1080P(1920×1080)/720P(1280× 720)/ D1(704×576/704×480) / CIF(352×288/352×240) |
| Frame Rate | 4M(1 ~ 20fps)/ 3MP(1 ~ 25/30fps) D1(1 ~ 25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264:32K ~ 10Mbps |
| 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) |
| Smart IR | Support |
| Digital Zoom | 16x |
| Flip | 0°/90°/180°/270° |
| Mirror | Off / On |
| Privacy Masking | Off / On (4 Area, Rectangle) |

Audio

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|-------------|-----|
| Compression | N/A |
|-------------|-----|

Network

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|---------------------|--|
| 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 Local PC for instant recording |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | Smart PSS, DSS, Easy4ip |
| Smart Phone | IOS, Android |

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 | <5.9W/7.5W |

Environmental

| | |
|----------------------|--|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 90% RH |
| Storage Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 90% RH |
| Ingress Protection | IP67 |
| Vandal Resistance | N/A |

Construction

| | |
|--------------|-----------------|
| Casing | Metal + Plastic |
| Dimensions | Φ 70mm×164.9mm |
| Net Weight | 0.38Kg(0.84lb) |
| Gross Weight | 0.44Kg(0.97lb) |

Ordering Information

| Type | Part Number | Description |
|------------|------------------------|--|
| 3MP camera | DH-IPC-HFW1420SP-0360B | 4MP Network Mini IR Bullet Camera, DWDR, PAL |
| | DH-IPC-HFW1420SN-0360B | 4MP HD Network Mini IR Bullet Camera, DWDR, NTSC |
| | IPC-HFW1420SP-0360B | 4MP Network Mini IR Bullet Camera, DWDR, PAL |
| | IPC-HFW1420SN-0360B | 4MP HD Network Mini IR Bullet Camera, DWDR, NTSC |
| | DH-IPC-HFW1420SP-0600B | 4MP Network Mini IR Bullet Camera, DWDR, PAL |
| | DH-IPC-HFW1420SN-0600B | 4MP HD Network Mini IR Bullet Camera, DWDR, NTSC |
| | IPC-HFW1420SP-0600B | 4MP Network Mini IR Bullet Camera, DWDR, PAL |
| | IPC-HFW1420SN-0600B | 4MP HD Network Mini IR Bullet Camera, DWDR, NTSC |
| | Accessories (optional) | PFA150 |
| | PFA134 | Junction box |
| | PFA151 | Corner mount |

Accessories

Optional:



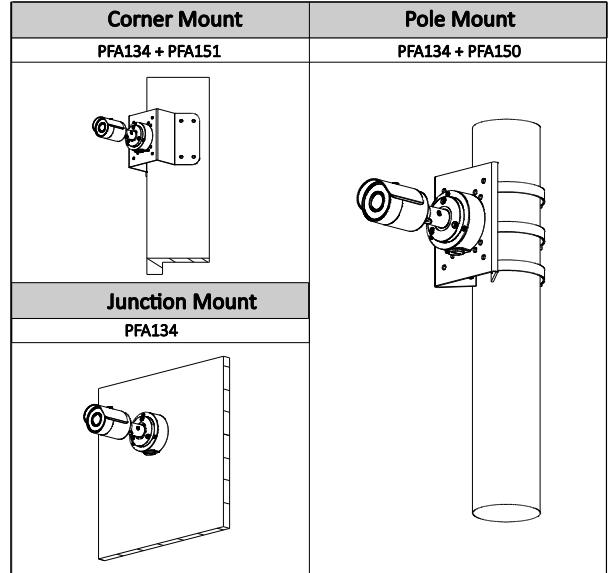
PFA134 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



Dimensions (mm/inch)

