

# 3 MP IF Wi-Fi Fixed Mini-Bullet

## Indoor/Outdoor Network Camera



- Wi-Fi Support (IEEE802.11b/g/n)
- Max. 20 fps @ 3 MP and 30 fps @ 1080p
- Digital WDR
- True Day/Night
- 2.8 mm or 3.6 mm Fixed Lens Options
- Smart IR 30 m (98 ft)
- Outdoor Rated IP67



### System Overview

The IR WiFi Fixed Mini-Bullet camera delivers 3 MP resolution with a choice of 2.8 mm or 3.6 mm 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 30 m (98 ft).

#### 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 Open Network Video Interface Forum (ONVIF) specifications, ensuring interoperability between network video products regardless of manufacturer.

**Technical Specification**

**Camera**

<b>Image Sensor</b>	1/3-in. CMOS
<b>Effective Pixels</b>	2304 (H) x 1536 (V)
<b>ROM / RAM</b>	16 MB / 256 MB
<b>Scanning System</b>	Progressive
<b>Electronic Shutter Speed</b>	1/3(4) s to 1/100,000 s
<b>Minimum Illumination</b>	Color: 0.1 Lux @ F2.0 B/W: 0.01 Lux @ F2.0 0 Lux (IR On)
<b>S/N Ratio</b>	More than 50 dB
<b>IR Distance</b>	Distance Up to 30.0 m (98.42 ft)
<b>IR On/Off Control</b>	Auto / Manual
<b>IR LEDs</b>	24

**Lens**

<b>Lens Type</b>	Fixed
<b>Mount Type</b>	Board-in
<b>Focal Length</b>	2.8 mm or 3.6 mm
<b>Max Aperture</b>	F2.0
<b>Angle of View</b>	H: 100° / 77°
<b>Focus Control</b>	Manual

**Video**

<b>Compression</b>	H.264 / MJPEG
<b>Streaming Capability</b>	Two (2) Streams
<b>Resolution</b>	3 MP (2304 × 1296) 1080p (1920 × 1080) 720p (1280 × 720) VGA (640 × 480) QVGA (320 × 240)
<b>Frame Rate</b>	Main Stream 3 MP (1 to 20 fps) / 1080p (1 to 30 fps) Sub Stream 1 VGA/QVGA (1 to 30 fps)
<b>Bit Rate Control</b>	CBR / VBR
<b>Bit Rate</b>	H.264: 32 K to 8192 Kbps
<b>Day/Night</b>	Auto (ICR) / Color / B/W
<b>BLC Mode</b>	BLC / HLC / DWDR
<b>White Balance</b>	Auto / Sunny / Night / Outdoor / Customized
<b>Gain Control</b>	Auto / Manual
<b>Noise Reduction</b>	3D DNR
<b>Motion Detection</b>	Off / On (4 Zone, Rectangle)
<b>Region of Interest</b>	Off / On (4 Zone)
<b>Smart IR</b>	Support
<b>Digital Zoom</b>	16x
<b>Flip</b>	0°/90°/180°/270°
<b>Mirror</b>	Off / On
<b>Privacy Masking</b>	Off / On (4 Area, Rectangle)

**Network**

<b>Ethernet</b>	RJ-45 (10/100 Base-T)
<b>Wi-Fi</b>	Wi-Fi (IEEE802.11b/g/n) 50.0 m (164.04 ft) open field
<b>Protocol</b>	IPv4/ IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPoE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
<b>Interoperability</b>	ONVIF, CGI
<b>Streaming Method</b>	Unicast / Multicast
<b>Max. User Access</b>	20
<b>Edge Storage</b>	NAS (Network Attached Storage), Local PC for instant recording, 128 GB MicroSD Card, 128 GB maximum
<b>Web Viewer</b>	IE10
<b>Management Software</b>	Smart PSS, DSS
<b>Mobil Operating System</b>	Android, IOS

**Certifications**

<b>Certifications</b>	FCC (SEFD1509217-B) UL (E234884-A113-UL)
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## Electrical

<b>Power Supply</b>	12V DC ±25%
<b>Power Consumption</b>	Max. 5.5 W (12V DC, IR On)

## Environmental

<b>Operating Conditions</b>	-30°C to +60°C (-22°F to +140°F), Less than 90% RH
<b>Storage Conditions</b>	-30°C to +60°C (-22°F to +140°F), Less than 90% RH
<b>Ingress Protection</b>	IP67

## Construction

<b>Casing</b>	Metal
<b>Dimensions</b>	Φ 70.0 mm × 164.70 mm (2.76 in. x 6.48 in.)
<b>Net Weight</b>	0.40 kg (0.88 lb)
<b>Gross Weight</b>	0.49 kg (1.08 lb)

## Accessories

Optional:



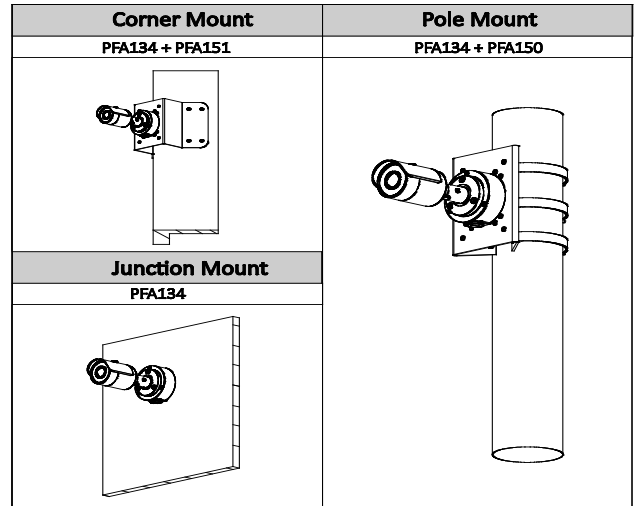
PFA134  
Junction Box



PFA150  
Pole Mount



PFA151  
Corner Mount



## Ordering Information

Type	Part Number	Description
3 MP Camera	DH-IPC-HFW13A0SN-W	3MP, 2.8mm, Manual Lens, True D/N, DWDR, IP67, IR: up to 30m (98ft), DC12V, Wi-Fi
	DH-IPC-HFW13A0SN -W	3MP, 3.6mm, Manual Lens, True D/N, DWDR, IP67, IR: up to 30m (98ft), DC12V, Wi-Fi
Accessories, Optional	PFA134	Junction Box
	PFA150	Pole Mount Bracket
	PFA151	Corner Mount
	PFA152	Pole Mount Bracket
	PFM321	12 V, 1 A Power Adapter

## Dimensions (mm/inch)

