

IR Megapixel Fixed MiniDome

2MP MiniDome Network Camera



- Max 2 MP at 30fps (1920×1080)
- True WDR (120 dB)
- True Day/Night
- Fixed Lens Options: 2.8 mm, 3.6 mm, 6 mm
- Smart IR 30 m (98 ft)
- 1/1 Alarm in/out, 1/1 Audio in/out
- Outdoor Rated IP67, Vandal Resistant IK10
- Intelligent Video System (IVS)
- Onboard Storage
- Five-year Warranty



System Overview

The IR Megapixel Fixed MiniDome camera delivers 2MP resolution with a choice of 2.8mm, 3.6mm, or 6mm fixed lens. The camera's elegant blend of aesthetics combined with a range of easy mounting solutions provides an excellent choice for a variety of small to mid-size applications.

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

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 prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated IR 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.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Intelligent Video System (IVS)

IVS is a built-in video analytic algorithm that delivers intelligent functions to monitor a scene for Tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area. In addition to scene analytics, the camera supports face detection to quickly capture a face and upload the image to a server. The camera also offers tamper detection by recognizing a dramatic scene change and generating a warning message to inspect the camera.

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. With its IK10 rated impact resistant design, the camera provides maximum durability against vandals making it capable of withstanding the equivalent of 55 kg (120lbs) of force.

Supporting ±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.

Technical Specification

Camera

| | |
|--------------------------|--|
| Image Sensor | 1/2.7" CMOS |
| Effective Pixels | 1920(H) x 1080(V) |
| ROM / RAM | 16MB /256MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | 1/3(4) ~ 1/100,000s |
| Minimum Illumination | Color: 0.01 Lux@F2.0; B/W: 0.001 Lux@F2.0; 0 Lux (IR on) |
| S/N Ratio | More than 50dB |
| IR Distance | Distance Up to 30m (98ft) |
| IR On/Off Control | Auto / Manual |
| IR LEDs | 24 |

Lens

| | |
|---------------|-----------------|
| Lens Type | Fixed |
| Mount Type | Board-in |
| Focal Length | 2.8mm/3.6mm/6mm |
| Max Aperture | F2.0/F2.0/F2.0 |
| Angle of View | H: 120°/93°/63° |
| Focus Control | Fixed |

Pan/Tilt/Rotation

| | |
|----------------|---|
| Pan/Tilt Range | Pan: 0° ~ 355°; Tilt: 0° ~ 65°, Rotation: 0° ~ 355° |
|----------------|---|

Alarm and Audio

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|--------------|-----|
| Alarm In/Out | 1/1 |
| Audio In/Out | 1/1 |

Video

| | |
|----------------------|---|
| Compression | H.264 / MJPEG |
| Streaming Capability | 3 Streams |
| Resolution | 1080p (1920×1080) / 720p (1280×720) / D1(704×576/704×480)/CIF (352×288/352×240) |
| Frame Rate | Main Stream 2MP (1 ~ 30fps) |
| | Sub Stream 1 D1/CIF (1 ~ 30fps) |
| | Sub Stream 2 720p (1 ~ 4fps) |
| Bit Rate Control | CBR / VBR |
| Bit Rate | H.264: 32K ~ 10Mbps |
| Day/Night | Auto (ICR) / Color / B/W |
| BLC Mode | BLC / HLC / WDR (120dB) |
| White Balance | Auto / Sunny / Night / Outdoor / Customized |
| Gain Control | Auto / Manual |
| Noise Reduction | 3D DNR |
| Motion Detection | 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) |

Network

| | |
|---------------------|---|
| Ethernet | RJ-45 (10/100Base-T) |
| Protocol | 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 |
| Interoperability | ONVIF, PSIA, CGI |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 20 |
| Edge Storage | NAS (Network Attached Storage), Local PC for instant recording, 128GB |
| Web Viewer | IE10.... |
| Management Software | Smart PSS, DSS |
| Smart Phone | Android, ios |

Certifications

| | |
|-----------------------|--|
| Certifications | FCC (SEFD1506099-B) UL (E234884-A60-UL) |
|-----------------------|--|

Electrical

| | |
|--------------------------|--|
| Power Supply | 12V DC \pm 25%, PoE (af Class 0) |
| Power Consumption | Max. 4W (12V DC, IR On), Max. 4W (PoE, IR On) |

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 & Vandal Resistance | IP67, IK10 |

Construction

| | |
|---------------------|--|
| Casing | Metal |
| Dimensions | Φ 109.9mm \times 81mm (4.33" x 3.19") |
| Net Weight | 0.38Kg (0.84lb) |
| Gross Weight | 0.44Kg (0.97lb) |

Intelligence

IVS triggers an alarm and takes a defined action for the following events:

| | |
|---------------------------------|---|
| Standard Features | Tampering with the camera. Error writing to an onboard Micro SD card. Error sending or receiving data over the network. Unauthorized access to the camera. |
| Premium Features | |
| Motion | An object moves through any part of the scene. |
| Tripwire | A target crosses a user-defined line. |
| Intrusion | A target enters or exits a defined perimeter. |
| Scene Change | A person or object moves the camera to change the scene or covers the camera to obscure the scene. |
| Abandoned/Missing Object | A target leaves an object in designated area, or a target removes an object from the same designated area. |
| Advanced Features | |
| Facial Detection | Detects and captures a snapshot of a human face in a defined area within a scene. |

Ordering Information

| Type | Part Number | Description |
|-------------|----------------------------|--|
| 2MP Camera | DH-IPC-HDBW42A1EN-AS 2.8mm | 2MP, 2.8mm, True D/N, True WDR, IP67, IK10, IR: up to 30m (98ft), PoE, IVS |
| | DH-IPC-HDBW42A1EN-AS 3.6mm | 2MP, 3.6mm, True D/N, True WDR, IP67, IK10, IR: up to 30m (98ft), PoE, IVS |
| | DH-IPC-HDBW42A1EN-AS 6mm | 2MP, 6mm, True D/N, True WDR, IP67, IK10, IR: up to 30m (98ft), PoE, IVS |
| Accessories | PFA136 | Junction Box |
| | PFB203W | Wall Mount Bracket |
| | PFA152 | Pole Mount Bracket (for use with PFB203W) |
| | PFA150 | Pole Mount Bracket (for use with PFA136) |
| | PFA151 | Corner Mount Bracket (for use with PFA136) |

Accessories

Optional:



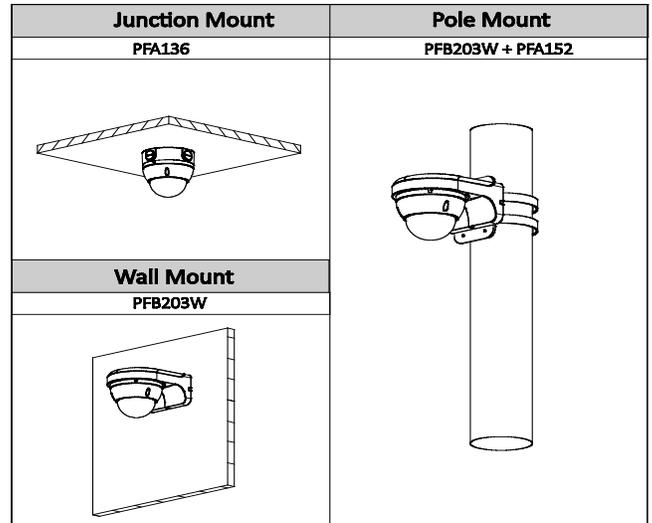
PFA136
Junction Box



PFB203W
Wall Mount



PFA152
Pole Mount



Dimensions (mm/inch)

