

# Megapixel Vandal-proof Fisheye

## 6MP 360° Fisheye Network Camera



- Max 30 fps at 6.0MP (3072 x 2048)
- True Day/Night
- Smart IR 10 m (33 ft)
- 2/1 Alarm in/out, 1/1 Audio in/out, Built in Mic
- Outdoor Rated IP67
- Vandal Resistant IK10
- Intelligent Video System (optional)
- Onboard Storage



### System Overview

The Megapixel Fisheye camera delivers 6MP resolution. 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

#### Panorama

Dahua's Fisheye cameras allow for a 360-degree hemispherical image that can be dewarped in order to view individual elements separately. In environments that require broad coverage, panoramic cameras can do the job alone where several cameras would be needed otherwise. With a high resolution sensor providing a 360-degree view, blind spots are eliminated. Easy to install on a ceiling or wall, these cameras are well-suited for office buildings, parking garages, gas stations, and retail environments.

#### 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.

#### 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 whiting 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 10 m (33 ft).

#### 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.

### Intelligent Video System (IVS)

With built-in optional intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed and Heat map, exporting the daily or hours report that shows the hottest area. Features only available to models ending with the letter "I".

### 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 (120 lbs) of force.

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. Multiple streaming enables bandwidth-efficient viewing and recording. Depending on the resolution and frame rate selected on the first stream, the second and third stream provides a copy at a lower resolution.

## Technical Specification

### Camera

|                          |                                                   |
|--------------------------|---------------------------------------------------|
| Image Sensor             | 1/1.8-in. CMOS                                    |
| Effective Pixels         | 3072 (H) x 2048 (V)                               |
| ROM / RAM                | 128 MB / 1 GB                                     |
| Scanning System          | Progressive                                       |
| Electronic Shutter Speed | 1/3(4) to 1/100,000s                              |
| Minimum Illumination     | Color: 0.0 1Lux at F2.0;<br>0 Lux at F2.0 (IR on) |
| S/N Ratio                | More than 50 dB                                   |
| IR Distance              | 10 m (33 ft)                                      |
| IR On/Off Control        | Auto / Manual                                     |
| IR LEDs                  | 3                                                 |

### Lens

|               |                    |
|---------------|--------------------|
| Lens Type     | Fixed              |
| Mount Type    | Board-in           |
| Focal Length  | 1.55 mm            |
| Max Aperture  | F2.0               |
| Angle of View | 185° / 185° / 185° |
| Focus Control | Fixed              |

### Alarm and Audio

|              |                                  |
|--------------|----------------------------------|
| Alarm In/Out | 2/1                              |
| Audio In/Out | 1/1 channel In/Out(Built in Mic) |

### Video

|                      |                                                                      |
|----------------------|----------------------------------------------------------------------|
| Compression          | Smart H.265+ / MJPEG                                                 |
| Streaming Capability | 2 Streams                                                            |
| Resolution           | 6MP (3072 × 2048) / 3MP (2048 × 1536) / 1080p (1920 × 1080)          |
| Frame Rate           | Main Stream 6MP / (1 to 30 fps)<br>Sub Stream 1 D1/CIF (1 to 30 fps) |
| Bit Rate Control     | CBR / VBR                                                            |
| Bit Rate             | H.264: 40 K to 8192 Kbps                                             |
| De-wrap Mode         | Original, Panoramic, Double Panoramic, 1+3, Eptz, 4 pictures         |
| Day/Night            | Auto (ICR) / Color / B/W                                             |
| BLC Mode             | BLC / HLC / DWDR                                                     |
| White Balance        | Auto / Manual                                                        |
| Gain Control         | Auto / Manual                                                        |
| Noise Reduction      | 3D DNR                                                               |
| Motion Detection     | Off / On (4 Zone, Rectangle)                                         |
| Region of Interest   | Off / On (4 Zone)                                                    |
| Digital Zoom         | 16x                                                                  |
| Privacy Masking      | Off / On (4 Area, Rectangle)                                         |

### Intelligent Function

|                |                                |
|----------------|--------------------------------|
| IVS (optional) | Tripewire, Intrusion, Heat map |
|----------------|--------------------------------|

### 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, Micro SD 64GB                                                                         |
| Web Viewer              | IE10                                                                                                                                                  |
| Management Software     | Smart PSS, DSS                                                                                                                                        |
| Mobile Operating System | Android, IOS                                                                                                                                          |

## Certifications

|                       |                                            |
|-----------------------|--------------------------------------------|
| <b>Certifications</b> | FCC (SEFD1412194-A)<br>UL (E234884-A51-UL) |
|-----------------------|--------------------------------------------|

## Electrical

|                          |                                      |
|--------------------------|--------------------------------------|
| <b>Power Supply</b>      | 12V DC $\pm 25\%$ , PoE (af Class 0) |
| <b>Power Consumption</b> | Max. 11 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 &amp; Vandal Resistance</b> | IP67, IK10                                          |

## Construction

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| <b>Casing</b>       | Metal                                                                            |
| <b>Dimensions</b>   | $\Phi 150 \text{ mm} \times 50.7 \text{ mm}$<br>(5.91 in. x 2.76 in. x 2.00 in.) |
| <b>Net Weight</b>   | 0.58 kg (1.28 lb)                                                                |
| <b>Gross Weight</b> | 0.86 kg (1.90 lb)                                                                |

## Accessories

Optional:



| Junction Mount        | Pole Mount                   |
|-----------------------|------------------------------|
| <b>PFA132</b>         | <b>PFA100+PFB302S+PFA152</b> |
|                       |                              |
| Wall Mount            | Ceiling Mount                |
| <b>PFA100+PFB302S</b> | <b>PFA100+PFB300C</b>        |
|                       |                              |

## Ordering Information

| Type        | Part Number       | Description                                    |
|-------------|-------------------|------------------------------------------------|
| 6MP Camera  | DH-IPC-EBW86A0N   | 6MP, 1.55mm, DWDR, IK10, PoE                   |
|             | DH-IPC-EBW86A0N-I | 6MP, 1.55mm, DWDR, IK10, PoE, IVS              |
| Accessories | PFA100            | Wall Mount                                     |
|             | PFA132            | Junction Box                                   |
|             | PFA152            | Pole Mount Bracket (for use with PFA123)       |
|             | PFB300C           | Ceiling Mount (For use with PFA100 wall mount) |
|             | PFB302S           | Wall Mount (For use with PFA100 wall mount)    |

## Dimensions (mm/inch)

