12MP Sensor with 6MP Dewarped Panoramic+ View

- Seamless panoramic surveillance with no blind spots
- 12MP high-resolution sensor
- True Day / Night with IR cut filter
- Up to 30 fps at 2.0 MP
- PoE or 12 VDC powered
- 3-year warranty

Advanced features

- Built-in 3D dewarped panoramic video
- Industry leading Panoramic+ views
- Oncam Angle Compensation Technology (ACT)
- Scene Offset Angle Control
- Configurable privacy regions
- Polygonal video motion detection regions
- Local alarm digital input and output
- External microphone input
- Local MicroSD card slot for event recording

Robust and attractive design

- Quick, easy & secure installation
- Versatile enclosure enables wall and pendant mounting
- Integrated adjustable mounting angle: 0-45°
- White powder coated die-cast aluminium enclosure
- IP66, IP67, IP68, IP69K, IK10+ rated
**Model**  
EVO-180-WED-P (White)

### General

| **Lens Field of View** | 187° horizontal, 74° vertical (Panoramic Stream)  
187° horizontal, 165° vertical (Fisheye Stream) |
|-----------------------|------------------------------------------------|
| **Image Sensor** | 4072 H x 3046 V, 12.4 MP  
1/2.3 in. Sony CMOS Sensor |
| **Lens** | 187° / F2.4 |
| **Day/Night IR Cut Filter** | Automatic, Manual, External and Alarm Control |
| **Minimum Illumination** | 0.1 lux |
| **Frame Rate** | Up to 30 fps  
Up to 14 fps at max resolution Panoramic Stream |
| **Video Motion Detection** | 8 configurable polygon regions |
| **External Alarm** | 1x contact input, 1x contact output |
| **External IR Filter Control** | 1x contact input |
| **Audio Connections** | Audio in through 12-pin I/O connector, RTSP using G711 codec and ONVIF Profile S |
| **Audio Input Level** | Mic input level range, approximately 5 mV to 50 mV |
| **Advanced Event Management** | Configurable triggers: motion regions, external contact input, network down and HTTP GET. Configurable actions: external contact output, SMTP frame upload, local recording, LED, IR filter controls |
| **Networking** | TCP/IP, HTTP, DHCP, DNS, NTP, SMTP, RTSP, UPnP and WS-Discovery |
| **Privacy** | 10 configurable privacy regions |
| **Local Recording** | Event based with configurable pre and post recording (ONVIF Profile G not supported) |
| **SD Card** | Built-in MicroSD card slot. Supports cards up to 256GB capacity. Speed class 10 or higher. |
| **White Balance Range** | Auto White Balance (Range = approx. 2500 K – 8000 K) |

### Video

| **Panoramic Stream 1 & 2** | 180° 3D Dewarped Panoramic Stream H.264 at:  
Up to 14 fps: 5.90 MP (3840x1536), 4.52 MP (3360x1344), 2.62 MP (2560x1024), 1.47 MP (1920x768),  
Up to 30 fps: 0.66 MP (1280x512), 0.26 MP (800x320). |
|---------------------------|------------------------------------------------|
| **Fisheye Stream 1** | 360° Fisheye Stream H.264:  
Up to 11 fps: 10.1 MP (3360 x 3000),  
Up to 14 fps: 6.46 MP (2688 x 2400), 4.48 MP (2240 x 2000),  
Up to 30 fps: 2.20 MP (1568 x 1400) |
| **Fisheye Stream 2** | 360° Fisheye Stream H.264 at up to 30 fps: 0.40 MP (672x600) |
| **Fisheye Stream 3** | 360° Fisheye Stream MJPEG at up to 30 fps 0.40 MP (672x600) |
| **VCam Stream 1, 2, 3, 4** | Up to 4 independent onboard 3D Dewarped Vcams H.264 at:  
Up to 30 fps: 1.00 MP (1280x720), 0.31 MP (640x480),  
VCam Streams 1 & 2 are replaced by Panoramic Streams 1 & 2, if those are enabled. |

### Multi-Stream Limitations

Not all stream combinations are permitted. Fisheye Stream 2 cannot be enabled when using Panoramic or VCam Streams. Enabling multiple streams simultaneously may reduce frame rates.

### Image Control

Settings include brightness / contrast / saturation / exposure compensation, compression quality and wall / ceiling / table mount  
Manipulation of wall mount and scene angles to ensure a level horizon

### Image Enhancement

Electronic WDR 60 dB

### VMS / NVR Support

ONVIF Profile S Conformant – Contact Oncam Sales for an up-to-date VMS compatibility list

### Web Browser Compatibility

Internet Explorer 11 with VLC plug-in required for full functionality.

### Unicast

Up to 20 simultaneous users depending on the resolution settings

### Multicast

Supported for H.264 main fisheye camera stream

### Bit Rate Control

Options include Constant Bit Rate Control and Fixed Quality Control
# TECHNICAL SPECIFICATION

## Evolution 180

### 180° Outdoor Camera

The next step in panoramic situational awareness

### Electrical

<table>
<thead>
<tr>
<th>Port</th>
<th>RJ45 1000Base-TX PoE</th>
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</thead>
<tbody>
<tr>
<td>12-pin I/O connector</td>
<td>12 VDC input (optional), Audio in, Alarm in &amp; out, External IR Filter Control in</td>
</tr>
<tr>
<td>Power Input</td>
<td>Power over Ethernet (PoE), IEEE standard 802.3af</td>
</tr>
<tr>
<td></td>
<td>12 VDC, 1.0 A (min) LPS, NEC Class 2 power supply.</td>
</tr>
<tr>
<td>Power Consumption (maximum)</td>
<td>7.20 W (PoE 48 VDC) / 6.96 W (DC 12 VDC)</td>
</tr>
</tbody>
</table>

### Mechanical

<table>
<thead>
<tr>
<th>Camera Mount</th>
<th>Surface and Pendant</th>
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<tbody>
<tr>
<td>Weight</td>
<td>2.60 kg (5.73 lbs)</td>
</tr>
<tr>
<td>Dimensions (L x W x H)</td>
<td>220 x 160 x 138 mm (8.7 x 6.5 x 5.4in.)</td>
</tr>
<tr>
<td>Housing Material</td>
<td>Aluminium and Polymer</td>
</tr>
</tbody>
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### Environmental

| Operating Temperature Range | -40°C to 55°C (-40 °F to +131°F) |
| Ingress & Impact Protection | IP66, IP67, IP68 (2m 30min), IP69K, IK10+ |

### Certifications


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Evolution 180

180° Outdoor Camera

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TECHNICAL SPECIFICATION

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Dimensions

- 9mm [0.4in]
- 141mm [5.5in]
- 131mm [5.1in]
- 224mm [8.8in]
- 220mm [8.7in]
- 151mm [5.9in]
- 138mm [5.4in]

⚠️ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.