The FLIR Saros DM-Series introduces eight new VGA and QVGA resolution options to FLIR’s multi-sensor security lineup. Capable of capturing video in complete darkness, bright sunlight, and through smoke, dust, or light fog, the Saros DM-Series provides superior perimeter protection in the toughest lighting and environmental conditions. A built-in 4K visible light camera operates alongside the thermal sensor to capture minute details in low light conditions. The Saros DM-Series also integrates with the FLIR United Video Management System (UVMS), as well as other ONVIF-compliant video management systems. This gives users complete control over the all new dual-sensor viewing mode, alarm functions, and fully programmable preset tour.

www.flir.com/security
## SPECIFICATIONS

### Thermal Sensor & Optics

<table>
<thead>
<tr>
<th>Array Format (NTSC)</th>
<th>320 x 256, 640 x 512</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thermal Sensitivity</td>
<td>&lt; 50mK @ 25°C F# 1.0</td>
</tr>
<tr>
<td>Detector Type</td>
<td>Long-Life, Uncooled VOx Microbolometer</td>
</tr>
<tr>
<td>Pixel Pitch</td>
<td>12 µm</td>
</tr>
<tr>
<td>Thermal Frame Rate</td>
<td>NTSC: 30 Hz, PAL: 25 Hz / 3.3 Hz</td>
</tr>
</tbody>
</table>

### Optical Characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>FOV (θ x θ)</th>
<th>Focal Length</th>
<th>F#</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM-392</td>
<td>92° x 69°</td>
<td>2.3 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-350</td>
<td>50° x 38°</td>
<td>4.3 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-324</td>
<td>24° x 18°</td>
<td>9.1 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-312</td>
<td>12° x 9°</td>
<td>18 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-895</td>
<td>95° x 72°</td>
<td>4.9 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-850</td>
<td>50° x 38°</td>
<td>8.7 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-624</td>
<td>24° x 18°</td>
<td>18 mm</td>
<td>F/1.0</td>
</tr>
<tr>
<td>DM-612</td>
<td>12° x 9°</td>
<td>36 mm</td>
<td>F/1.0</td>
</tr>
</tbody>
</table>

### E-Zoom

- Continuous E-Zoom to 4x

### Sensitivity

- Visibile: One channel of H.264 & M-JPEG
- Thermal: One channel of H.264 & M-JPEG

### Video

- Streaming Resolution: Thermal: QVGA to VGA, Visible: VQA to 4K
- Thermal AGC Region of Interest (ROI)
  - Default, Presets and User definable to insure optimal image quality on subjects of interest
- Image Uniformity Optimization: Automatic Flat Field Correction (FFC) - Thermal and Temporal Triggers

### System Integration

- Ethernet: Yes
- Network APIs: FLIR Sdk, FLIR CGI, ONVIF Profile S
- Digital I/O: Input: Four sets / 5V 10kΩ pull up, Output: Two sets / relay output, 120mA max at 24VDC / 24VAC
- Audio I/O: Bi-Directional Audio - connection - Terminal block
- Supported Protocols: IPv4, HTTP, UPnP, DNS, NTP, RTSP, RTP, TCP, UDP, ICMP, IGMP, DHCP, ARP

### Pan/Tilt Performance

- Pan Angle: Continuous 360°
- Tilt Angle: -10° to 180°
- Programmable Presets: 256

### General

- Dimensions: Diameter: 207mm (8.15 in), Height: 300mm (11.8 in)
- Weight: 3.8 Kg (8.38 lbs.)
- Input Voltage: 12VDC, 24VAC, Universal PoE Injecter
- Power Consumption: 12VDC, 2.5A, 30W, 24VAC, 2.38A, 57VA, 55VDC (PoE), 0.62A, 34W

### Environmental

<table>
<thead>
<tr>
<th>IP Rating (Dust &amp; Water Ingress)</th>
<th>IP66</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Temperature Range</td>
<td>-40°C to 55°C</td>
</tr>
<tr>
<td>Storage Temperature Range</td>
<td>-40°C to 85°C</td>
</tr>
<tr>
<td>Humidity: 10 – 90%</td>
<td></td>
</tr>
<tr>
<td>Shock</td>
<td>IEC 60068-2-27</td>
</tr>
<tr>
<td>Vibe</td>
<td>IEC 60068-2-64</td>
</tr>
</tbody>
</table>

### Compliance & Certifications

- FCC Part 15 (Subpart B, Class A)
- RoHS
- CE Marked
- FLIR Systems, Inc.

### Visible Light 4K Camera

- Sensor Type: Full HD 4K, 1/1.8"-type Exmor R CMOS
- E-Zoom: Continuous E-Zoom to 8x

### Streaming Resolution

- Thermal: QVGA to VGA
- Visible: VGA to 4K

### Visible lens 1

- Lens FOV: HFOV = 110°, VFOV = 59°
- Focal Length: 2.8mm
- F/#: F 1.6

### Corresponding Models

- DM-392, DM-895, DM-350, DM-850

### Visible lens 2

- Lens FOV: HFOV = 55°, VFOV = 30°
- Focal Length: 6mm
- F/#: F 1.6

### Corresponding Models

- DM-324, DM-624

### Visible lens 3

- Lens FOV: HFOV = 36°, VFOV = 20°
- Focal Length: 12mm
- F/#: F 2.0

### Corresponding Models

- DM-312, DM-612

### Cyber Security

- 802.1x
- TLS/HTTPS
- User authentication
- Access control via firewall
- User credentials with policy enforcement
- Digest authentication

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com).

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