The FLIR Quasar™ Quad Sensor Camera is designed to address any application that requires full coverage of a wide area surveillance, with either a 180° or 360° degree field of view. Thanks to its patent-pending, one-step conversion process, the camera features a single form factor that is field-configurable to either 180° or 360° mode. The Quad Sensor capability completes FLIR’s offering of full, wide-area coverage typically required for city surveillance deployments, critical infrastructure, airports and any other high-profile security applications.

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**QUASAR™ 4x2K Panoramic**

The FLIR Quasar™ Quad Sensor Camera is designed to address any application that requires full coverage of a wide area surveillance, with either a 180° or 360° degree field of view. Thanks to its patent-pending, one-step conversion process, the camera features a single form factor that is field-configurable to either 180° or 360° mode. The Quad Sensor capability completes FLIR’s offering of full, wide-area coverage typically required for city surveillance deployments, critical infrastructure, airports and any other high-profile security applications.

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**180°/360° FIELD OF VIEW**

Display a single, 180° panoramic scene or achieve full 360° coverage using four individual views and an optional fifth sensor to eliminate any blind spots (purchased separately).

**BLEND 2K VIDEO STITCHING**

The Quasar Quad Sensor Camera applies automatic lens distortion correction when stitched together.

**EASY INTEGRATION**

The camera features H.264 / H.265 compression and is compliant with ONVIF Profile S/G.
**SPECIFICATIONS**

**Camera**
- Image Sensor: 1/2.8" BSI CMOS (x4 Each)
- Sensor Resolution: 1920x1080 (x4 Each)
- Scanning Mode: Progressive
- Sensitivity: 0.02 (color) / 0 (BW)
- Lens Type: Fixed 3.6mm, 92° HFOV, F2.0
- Automatic Electronic Shutter: 1/1.75 to 1/10,000 (auto)
- Digital Slow Shutter (DSS): 1/7.56 to 1/800 (NTSC/PAL)
- White Balance: Auto / ATW / Manual / One Push
- Automatic Gain Control (AGC): Auto
- Back Light Compensation: On / Off
- Iris Control: Auto-Shutter
- Shutter WDR: 120 db
- Noise Reduction: 3D
- Tamper Detection: Yes
- Privacy Zones: Yes
- Video Motion Detection: Yes
- Day / Night Mode: Yes
- Mechanical IR Cut Filter: Yes
- Signal to Noise Ratio (SNR): More than 50dB when AGC off
- Compression: H.265 main profile, H.264 main profile / high profile (MPEG-4 Part 10/AVC), Motion JPEG
- Analog Output: 1 - composite video output BNC
- Resolution Range: 180 mode: Scalable from D1 to 3840x1440 360 mode: Scalable from D1 to 3840x2160
- Bandwidth: Configurable between 64Kbps and 20Mbps
- Rate Control: CBR, CBVR
- SD Card Recording: microSDXC up to 128GB (Class 10)
- Audio Connections: Terminal block
- Audio: 1 Audio Line Level Input, G.711 a/μ-law, AAC support, 1 Audio Line Level Out

**Video**
- Bi-Directional Audio: 1 Audio Line Level Input, G.711 a/μ-law, AAC support, 1 Audio Line Level Out
- Audio Connections: Terminal block
- Compression: H.265 main profile, H.264 main profile / high profile (MPEG-4 Part 10/AVC), Motion JPEG
- Maximum Performance: 180 mode: H.264/H.265 30/25 FPS @ 3840x1440 + D1 (NTSC/PAL) H.264/H.265 20/20 FPS @ 3840x1440 + 1920x1080 + D1 (NTSC/PAL) 360 mode: H.264 30/25 FPS @ 4K (NTSC/PAL) or H.264/H.265 15/15 FPS @ 4K (NTSC/PAL) or H.264/H.265 15/15 FPS @ 4K + 1080P + D1 (NTSC/PAL)
- Analog Output: 1 - composite video output BNC
- Resolution Range: 180 mode: Scalable from D1 to 3840x1440 360 mode: Scalable from D1 to 3840x2160
- Bandwidth: Configurable between 64Kbps and 20Mbps
- Rate Control: CBR, CBVR
- SD Card Recording: microSDXC up to 128GB (Class 10)
- Audio Connections: Terminal block
- Audio: 1 Audio Line Level Input, G.711 a/μ-law, AAC support, 1 Audio Line Level Out
- Audio Connections: Terminal block
- Compression: H.265 main profile, H.264 main profile / high profile (MPEG-4 Part 10/AVC), Motion JPEG
- Maximum Performance: 180 mode: H.264/H.265 30/25 FPS @ 3840x1440 + D1 (NTSC/PAL) H.264/H.265 20/20 FPS @ 3840x1440 + 1920x1080 + D1 (NTSC/PAL) 360 mode: H.264 30/25 FPS @ 4K (NTSC/PAL) or H.264/H.265 15/15 FPS @ 4K (NTSC/PAL) or H.264/H.265 15/15 FPS @ 4K + 1080P + D1 (NTSC/PAL)
- Analog Output: 1 - composite video output BNC
- Resolution Range: 180 mode: Scalable from D1 to 3840x1440 360 mode: Scalable from D1 to 3840x2160
- Bandwidth: Configurable between 64Kbps and 20Mbps
- Rate Control: CBR, CBVR
- SD Card Recording: microSDXC up to 128GB (Class 10)
- Audio Connections: Terminal block
- Audio: 1 Audio Line Level Input, G.711 a/μ-law, AAC support, 1 Audio Line Level Out

**IR Illuminator**
- Distance: Up to 25 m (82 ft.)
- Angle of Illumination: Full 60°
- Number of IR LEDs: High efficiency SMD
- Peak Emission Wavelength (nm): 850
- Network Protocols: TCP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv4, IPv6, SSL, LDAP
- Ethernet: 10/100, auto sensing, half / full duplex (RJ-45)
- Remote Configuration: Via web browser or supported video management software
- Firmware Upgrade: Flash memory for upgrade of camera firmware over the network
- Supported Web Browser: Internet Explorer 10+, Firefox 50+, Chrome 55+
- Alarm: 1 Dry Alarm Contact In / 1 Relay Contact Out
- Physical:
  - Enclosure: Indoor/Outdoor: IK10 rated vandal IP67
  - Dimensions: 190mm x 190mm x 130mm (7.48 x 7.48 x 5.11 in.)
  - Unit Weight: 1.56 Kg (3.44 lbs.)
- Mechanical:
  - Bubble Rating: IK10 vandal resistant polycarbonate
  - Bubble F-Stop: F 1.0 - Smoked Bubble (Standard)
  - Pan / Tilt / Rotate: 360 mode: Tilt 63° degrees (fixed) 180 mode: Tilt 45° degrees
  - Bubble Rating: IK10 vandal resistant polycarbonate
  - Bubble F-Stop: F 1.0 - Smoked Bubble (Standard)
  - Pan / Tilt / Rotate: 360 mode: Tilt 63° degrees (fixed) 180 mode: Tilt 45° degrees
  - Synced down from horizon
- Environmental:
  - Operating Temperature: -40° to 50° C (-40° to 122° F)
  - Storage Temperature: -40° to 60° C (-40° to 140° F)
  - Humidity: 95% (non-condensing)
- Warranty & Regulatory:
  - Warranty: According to FLIR RMA Policy and Process Notice document
  - USA: UL, FCC Part 15 (subpart B, class A)
  - International: CE marked, EN61000-6-3 & EN50130-4, RoHS, RCM
  - MTBF (hrs): 494,940

**Mounting Options**
- CM-CAPX-63P: Pendant Cap for CM-63xx-P1-I with dual 1.5" NPT (m) threaded / 3.4" (f) EMT threaded mount
- CM-ARMS-G3: Wall mount bracket 1.5" NPT (m) threaded
- CM-ELBX-G3: Wall mount bracket 1.5" NPT (m) threaded with IP68 electrical box enclosure
- CM-SSNK-G3: Goose-neck mount 1.5" NPT (m) threaded with IP68 electrical box enclosure
- CM-DRNR-G3: 90° Exterior Angle corner adapter for CM-xxxx-G3 mounts
- CM-POLE-G3: Pole Adapter for Cx-xxxx-G3 mounts including 2.5" - 8.5" straps
- CM-IMG5-63P: 5th Image Sensor for CM-63xx-P1-I (optional accessory for 360° viewing mode)

**Camera Ordering Information**

<table>
<thead>
<tr>
<th>Type</th>
<th>Series</th>
<th>Camera Resolution</th>
<th>Lens Options</th>
<th>Environmental</th>
<th>IR Illuminator</th>
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<tr>
<td>CM-63</td>
<td>63</td>
<td>08</td>
<td>X</td>
<td>1</td>
<td>I</td>
</tr>
<tr>
<td>Mini-Dome Camera</td>
<td>= Quasar</td>
<td>Gen III</td>
<td>08 = 4K UHD</td>
<td>1 = IP67 Vandal with Heater</td>
<td>I = 60° Illuminator</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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19-0582-SEC-ENT CM-6308 Datasheet