With its uncooled, high-resolution detector and cutting-edge functionality, the FLIR A655sc helps researchers and scientists accurately quantify thermal patterns, leakage, dissipation, and other heat related factors in equipment, products, and processes in real-time.

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**IMAGING SPECIFICATIONS**

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<td>Resolution</td>
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<td>Detector Pitch</td>
<td>17 μm</td>
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<td>NETD</td>
<td>&lt;30 mK</td>
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**Imaging**

- **Power Connector:** 2-pole jackable screw terminal
- **Allowed Voltage Range:** 10-30 VDC
- **Gigabit Ethernet Port:** RJ-45 connector, 1000 MB
- **USB mini-B connector**
- **Power indicator**
- **Hardware reset**
- **Digital I/O Connector:** 6-pole screw terminal
  - **Digital Out:** 2 outputs, opto-isolated 10-30 V supply, max 100 mA
  - **Digital In:** 2 inputs, opto-isolated 10-30 V

**Measurement**

- **Standard Temperature Range:** -40°C to 150°C (-40°F to 302°F)
- **Temperature Range:** 100°C to 650°C (212°F to 1,202°F)
- **Optional Temperature Range:** Up to 2,000°C (3,632°F)
- **Accuracy:** ±2°C or ±2% of Reading

**Optics**

- **Camera f/#:** f/1.0
- **Available Lenses:** 6.5 mm (80°), 13.1 mm (45°), 24.6 mm (25°), 41.3 mm (15°), 88.9 mm (7°)
- **Focus:** Automatic or Manual (Motorized)
- **Close-up / Microscopes:** Close-up 25 μm, 50 μm, 100 μm

**Image Presentation**

- **Digital Data Via PC Using ResearchIR Software**
- **Allowed Voltage Range:** 10-30 VDC
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**System Overview FLIR A655sc**

- **Detector Type:** Uncooled Microbolometer
- **Spectral Range:** 7.5 – 14.0 μm
- **Resolution:** 640 x 480
- **Detector Pitch:** 17 μm
- **NETD:** <30 mK

**General**

- **Operating Temperature Range:** -15°C to 50°C (572°F to 3,632°F)
- **Storage Temperature Range:** -40°C to 70°C (-40°F to 158°F)
- **Encapsulation:** IP 30 (IEC 60529)
- **Bump / Vibration:** 25 g (IEC 60068-2-29) / 2 g (IEC 60068-2-6)
- **Power:** 12/24 VDC, 24 W Absolute Max.
- **Weight:** 0.9 kg (1.98 lb)
- **Size:** 216 x 73 x 75 mm (8.5 x 2.9 x 3.0 in)
- **Mounting:** ¼”-20 (on three sides), 2 x M4 (on three sides)

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**17-1683-INS-A655sc Datasheet**

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