**Choose the right tool for the job.**

### EXPERT SERIES

#### Where used
- Industrial maintenance
- Generation/transmission
- Oil and gas predictive maintenance
- Research and development
  - Electrical
  - Mechanical
  - Biology/sciences
- Quality control
- Plus the industries included under the professional and performance series

### PROFESSIONAL SERIES

#### Where used
- Industrial maintenance
- Heavy commercial facility maintenance
- Oil and gas maintenance
- Veterinary
- Reliability inspections
- Heavy building diagnostics
  - Building envelope
  - Construction defects
- Electrical, water, gas utilities
- Machinery instrumentation and appliances
- Plus the industries included under the performance series

### PERFORMANCE SERIES

#### Where used
- Electrical inspections
- HVAC inspections
- Mechanical
- Residential home inspections
- Light commercial maintenance
- Building diagnostics
  - Building envelope
  - Commercial/industrial facilities

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### Detector resolution
- **TiX560**: 320 x 240, 640 x 480 Super Res.
- **TiX520**: 320 x 240, 640 x 480 Super Res.
- **TiX500**: 320 x 240, 640 x 480 Super Res.
- **Ti400**: 240 x 180, 200 x 150
- **Ti300**: 320 x 240
- **Ti200**: 240 x 180, 200 x 150
- **Ti100**: 320 x 240

### Spatial resolution
- **TiX560**: 1.31 mRad
- **TiX520**: 1.31 mRad
- **TiX500**: 1.31 mRad

### Field of view
- **TiX560**: 24° x 17°
- **TiX520**: 24° x 17°
- **TiX500**: 24° x 17°
- **Ti400**: 24° x 17°
- **Ti300**: 24° x 17°

### Distance to Spot
- **TiX560**: 753.1
- **TiX520**: 753.1
- **TiX500**: 753.1
- **Ti400**: 585.1
- **Ti300**: 470.1

### Thermal sensitivity
- **TiX560**: 80 mK
- **TiX520**: 80 mK
- **TiX500**: 80 mK
- **Ti400**: 80 mK
- **Ti300**: 80 mK
- **Ti200**: 80 mK
- **Ti100**: 80 mK

### Temperature range
- **TiX560**: -20 °C to +250 °C
- **TiX520**: -20 °C to +350 °C
- **TiX500**: -20 °C to +350 °C
- **Ti400**: -20 °C to +450 °C
- **Ti300**: -20 °C to +450 °C
- **Ti200**: -20 °C to +450 °C
- **Ti100**: -20 °C to +450 °C

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**Note:**
- **TiX560**: Advanced manual focus
- **TiX520**: Fixed Focus
- **TiX500**: In-Focus® Auto Blend
- **Ti400**: In-Photonic™
- **Ti300**: Image Sharpening
- **Ti200**: Auto Focus System
- **Ti100**: Standard video rec.
- **TiX500**: LS, AMF
- **Ti400**: LS, AMF
- **Ti300**: LS, AMF
- **Ti200**: LS, AMF
- **Ti100**: LS, AMF
- **TiX560**: FF
- **TiX520**: FF
- **TiX500**: FF
- **Ti400**: FF
- **Ti300**: FF
- **Ti200**: FF
- **Ti100**: FF

---

**Choose the right tool for the job.**
### Expert Series Thermal Imagers

<table>
<thead>
<tr>
<th>Model</th>
<th>TIE560</th>
<th>TIE530</th>
<th>TIE500</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFOV (spatial resolution)</td>
<td>1.31 mRad</td>
<td>1.75 mRad</td>
<td>2.09 mRad</td>
</tr>
<tr>
<td>Detector resolution</td>
<td>320 x 240 (76,800 pixels)</td>
<td>240 x 190 (60,000 pixels)</td>
<td>200 x 150 (50,000 pixels)</td>
</tr>
<tr>
<td>TI Fusion</td>
<td>Manual focus</td>
<td>Manual focus</td>
<td>Manual focus</td>
</tr>
<tr>
<td>IR-Fusion</td>
<td>3.5 inch touchscreen LCD, 640 x 480 pixel resolution</td>
<td>3.5 inch touchscreen LCD, 640 x 480 pixel resolution</td>
<td>3.5 in (landscape) 330 x 240 LCD</td>
</tr>
<tr>
<td>Design</td>
<td>Rugged, ergonomic design for one-handed use</td>
<td>Rugged, ergonomic design for one-handed use</td>
<td>Rugged, lightweight, ergonomic design for one-handed use</td>
</tr>
<tr>
<td>Thermal sensitivity</td>
<td>≤ 0.045 °C at 30 °C target temp (45 mK); Filter Mode (NETD improvement) ≤ 0.03 °C at 30 °C target temp (20 mK)</td>
<td>≤ 0.05 °C at 30 °C target temp (50 mK); Filter Mode (NETD improvement) ≤ 0.03 °C at 30 °C target temp (20 mK)</td>
<td>≤ 0.05 °C at 30 °C target temp (50 mK); Filter Mode (NETD improvement) ≤ 0.03 °C at 30 °C target temp (20 mK)</td>
</tr>
<tr>
<td>Temperature measurement range</td>
<td>-20 °C to +1200 °C (4 °F to +2192 °F)</td>
<td>-20 °C to +650 °C (4 °F to +1562 °F)</td>
<td>-20 °C to +650 °C (4 °F to +1562 °F)</td>
</tr>
<tr>
<td>Frame rate</td>
<td>60 Hz or 9 Hz versions</td>
<td>9 Hz or 30 Hz versions</td>
<td>9 Hz</td>
</tr>
<tr>
<td>Software</td>
<td>SmartView® software and Fluke Connect®</td>
<td>SmartView® software and Fluke Connect®</td>
<td>SmartView® software and Fluke Connect®</td>
</tr>
<tr>
<td>Voice annotation</td>
<td>Yes</td>
<td>Yes</td>
<td>–</td>
</tr>
<tr>
<td>Video recording</td>
<td>Standard and radiometric</td>
<td>Standard and radiometric</td>
<td>–</td>
</tr>
<tr>
<td>Streaming video (remote display)</td>
<td>Via HDMI or WiFi to SmartView® software</td>
<td>Via USB or WiFi</td>
<td>–</td>
</tr>
<tr>
<td>Remote control</td>
<td>Yes</td>
<td>Yes</td>
<td>–</td>
</tr>
<tr>
<td>Alarms</td>
<td>High temperature, low temperature, and Isotemperatures</td>
<td>High temperature, low temperature, and Isotemperatures</td>
<td>–</td>
</tr>
<tr>
<td>Warranty</td>
<td>Two-years standard, extended warranty available</td>
<td>Two-years standard, extended warranty available</td>
<td>Two-years standard, extended warranty available</td>
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</tbody>
</table>

### Professional Series Thermal Imagers

<table>
<thead>
<tr>
<th>Model</th>
<th>TIS65</th>
<th>TIS60</th>
<th>TIS55</th>
<th>TIS50</th>
<th>TIS45</th>
<th>TIS40</th>
<th>TIS20</th>
<th>TIS10</th>
</tr>
</thead>
<tbody>
<tr>
<td>IFOV (spatial resolution)</td>
<td>1.75 mRad</td>
<td>2.09 mRad</td>
<td>2.4 mRad</td>
<td>2.8 mRad</td>
<td>3.9 mRad</td>
<td>5.2 mRad</td>
<td>5.2 mRad</td>
<td>7.8 mRad</td>
</tr>
<tr>
<td>Detector resolution</td>
<td>320 x 240 (76,800 pixels)</td>
<td>240 x 190 (60,000 pixels)</td>
<td>200 x 150 (50,000 pixels)</td>
<td>200 x 150 (50,000 pixels)</td>
<td>260 x 195 (66,000 pixels)</td>
<td>220 x 165 (53,000 pixels)</td>
<td>160 x 120 (26,400 pixels)</td>
<td>80 x 60 (16,000 pixels)</td>
</tr>
<tr>
<td>IR-Fusion</td>
<td>3.5 inch touchscreen LCD, 640 x 480 pixel resolution</td>
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