



FLIR TG165

Imaging IR Thermometer

The FLIR TG165 Imaging IR Thermometer bridges the gap between single spot infrared thermometers and FLIR's legendary thermal cameras. Equipped with FLIR's exclusive Lepton® micro thermal sensor, the TG165 lets you see the heat so you know where to reliably measure it. Easily find unseen hot and cold spots for instant troubleshooting, and store images and data to show customers and include in reports.

See the Heat™ - Speed Troubleshooting

FLIR's Innovative Lepton® IR Imaging Engine

- Instantly shows what's hot and where to aim
- Eliminates blind guesswork
- 24:1 spot size ratio for safer distance measuring

Grab and Go Simplicity

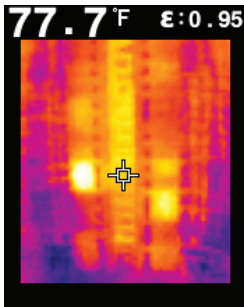
Fire It Up and Get to Work in Seconds

- Intuitive to operate with no special training required
- Easily save images and data for documentation
- Download images fast over USB or from removable micro SD

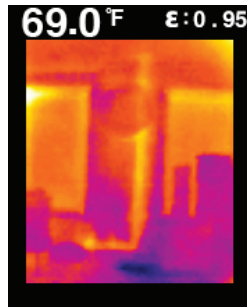
Rugged and Reliable

Designed for the Harshes Environment

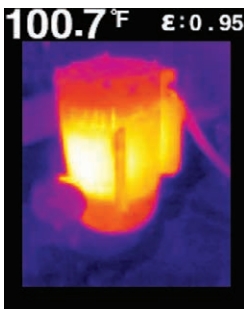
- Built to withstand a 2 meter drop
- Covered by FLIR's exclusive 2-10 warranty
- Compact and durable to easily stow in a crowded tool bag



Electrical Troubleshooting



Warm Pipe in Wall



Mechanical Overheating



Refrigeration Issues

Imaging Specifications

| IR Temperature Measurement | |
|-----------------------------|---|
| Basic Accuracy | +/- 1.5% or 1.5°C |
| Range | -25 to 380°C, -13 to 716°F |
| Emissivity | 4 Pre-Set Levels with Custom Adjustment, 0.1 to 0.99 |
| Dist. to Spot Ratio (D:S) | 24:1 |
| Measurement Resolution | 0.1 °C / °F |
| Response Time | 150 Milliseconds |
| Spectral Response | 8 to 14µm |
| Lasers | Dual Diverging Lasers, Frames Temp Measurement Area |
| Thermal Imaging | |
| Imaging Detector | FLIR Lepton™ Microbolometer Focal Plane Array (FPA) |
| Shutter | Integrated Automatic Shutter |
| Image Resolution (H x W) | 4,800 Pixels (80 x 60) |
| Spectral Response | 8 to 14µm |
| Field of View (H x W) | 50° x 38.6° |
| Upper Scene Range | 127°C, 260°F (400K) |
| Thermal Imaging Sensitivity | 150mK |
| Frame Rate | 9 Hz |
| Color Palettes | 2 (Grey Scale, Hot Iron) |
| Saved Image Format | Bitmap (BMP) Image with Temperature and Emissivity |
| General | |
| Unit Size (H x W x D) | 7.3 x 2.2 x 3.7 in (186 x 55 x 94 mm) |
| Display Type | 2.0 in TFT LCD |
| Display Resolution (W x H) | 38,720 Pixels (176 x 220) |
| Battery | Rechargeable via Micro USB Lithium-ion Battery: 3.7V, 2600mAh |
| Auto Power Off | Yes, Adjustable with Disable |
| Battery Life Hours | Typical Use: Five 8-Hr Work Days; Continuous Use: 8 Hrs |
| Certifications | CE / CB / FCC / FDA |
| Memory | 8Gb Micro SD Card |
| Operating Temperature | -10 to 45°C, 14 to 113°F |
| Drop Test | Designed for 2 Meter, 6.5 Feet |
| Tripod Mount | 1/4 in - 20 on Handle Bottom |
| Warranty | 2 Years Product, and 10 Years Thermal Imaging Detector* |
| Includes | Lanyard, USB Cable, International Charger (US, UK, EU, AU, CN) 8 Gb Micro SD Card, Technical Documentation |

* When registered within 60 days of purchase.

Ordering Information

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|--------------|--------------------------------------|
| TG165 | Imaging IR Thermometer |
| TA13 | EVA Protective Case for TG165 |
| TA14 | Belt Holster for TG165 |

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