Introducing the FLIR TG165 Imaging IR Thermometer

FIND AN UNSEEN WORLD OF PROBLEMS ORDINARY METERS MISS

Bridging the gap between single spot IR thermometers and FLIR’s legendary infrared cameras, the TG165 gives you the advantage of thermal imaging to help you discover temperature issues you can’t see with typical spot radiometers. You’ll work more quickly and have confidence you won’t miss anything vital.

Equipped with FLIR’s exclusive Lepton® micro thermal camera, the TG165 helps you identify heat patterns, reliably measure temperature, and store images and data for reports. And with a spot ratio of 24 to 1, you can take accurate readings from safer distances. The TG165 is simple to operate, featuring intuitive menu icons and dual laser pointers. Built by the world leader in thermal technology, the durable TG165 will quickly become your “go to” temperature tool.

KEY BENEFITS

• See heat issues clearly
• Measure temperature more accurately
• Document your work with images
• Trust the rugged durability
• Target the right spot
• Troubleshoot quickly
• Stay safer and more aware
• Fits every budget

KEY FEATURES

1. True Thermal Detection
   – FLIR Lepton delivers best image quality in its class

2. Portable, Ergonomic Design
   – Balanced, contoured grip

3. Tripod Mount / Lanyard Connection

4. Simple to Operate
   – Intuitive buttons and menu icons

5. Rugged and Reliable
   – Withstands a 2-meter drop

6. Dual Pointer Lasers
   – Frame your area of interest

7. Convenient Pull Trigger
   – Activates lasers and freezes images

8. Store Images and Data
   – Removable micro SD card, mini USB port for downloading images and charging internal battery

HVAC Inspections
Warm Pipe in Wall
Mechanical Overheating
Predictive Maintenance
Refrigeration Issues
Hot Fuses
Electrical Troubleshooting
### Ordering Information

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### 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
- **Field 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 when registered within 60 days of purchase.
- **Includes**: Lanyard, USB Cable, International Charger (US, UK, EU, AU, CN) 8 Gb Micro SD Card, Technical Documentation

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