

# 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<sup>®</sup>™ - 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

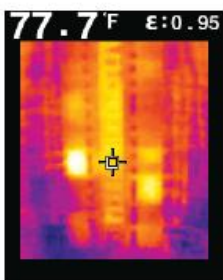
*Fire It Up and Get to Work in Seconds*

- 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

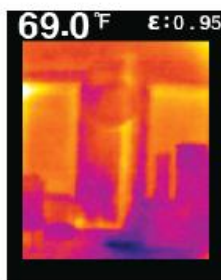
### Rugged and Reliable

*Designed for the Harshesht Environments*

- 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

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