



MSX® THERMAL CAMERA

FLIR TG165-X™

The FLIR TG165-X dramatically reduces inspection and diagnostic time by helping you visually pinpoint the source of electrical, mechanical, and HVAC/R system faults. Instead of searching for temperature anomalies with a single-spot IR thermometer, this non-contact temperature measurement and imaging tool displays a thermal picture of your target including any hot spots or cold zones that could indicate a problem. See wires or components clearly and even read labels thanks to FLIR patented MSX image enhancement, which adds visual details to full thermal images. The bullseye laser helps ensure you're always targeting the right component for measurement while the drop-tested, portable design with easy-to-use buttons and settings help you complete the job quickly and stress-free. With internal storage for up to 50,000 images and rechargeable Li-ion battery, the FLIR TG165-X is ready to go right out of the box.

www.flir.com/TG165-X



PINPOINT THE SOURCE OF SYSTEM FAILURES

Troubleshoot electrical, mechanical, and building issues with this handheld thermal imager

- See temperature anomalies immediately in the thermal image instead of searching for them with a single-spot IR thermometer
- Speed inspections with a thermal view that tells you instantly whether a target has overheating components or hidden air leaks
- Measure a wide range of temperatures, from -25°C to 300°C (-13°F to 572°F), with an accuracy of up to ±1.5°C (±3°F)



COMPLETE INSPECTIONS QUICKLY & EASILY

See the detail needed to troubleshoot faults and gauge their severity

- Interpret images faster and easier with MSX® two-camera technology, which enhances thermal images with crisp visual details
- Identify the exact area that you're measuring using the bullseye laser pointer
- Capture thermal MSX or visual images plus temperature readings with a simple trigger-pull
- Demonstrate the problem was found and corrected with recorded before-and-after images



WORK WITH CONFIDENCE

Take the TG165-X anywhere thanks to its portable design and protective IP54 enclosure

- Work safely and worry-free knowing that the thermal imager can withstand a 2-meter drop
- See into dark or hard-to-reach areas with the bright LED worklight
- Easily view live thermal or recorded images on 2.4-in. display
- Rely on the security of the world-class FLIR 2-10 warranty

SPECIFICATIONS

Imaging and optical data

| | |
|---------------------------|-----------------|
| IR resolution | 80 × 60 pixels |
| Digital image enhancement | No |
| Thermal sensitivity/NETD | <70 mK |
| Field of view (FOV) | 51° × 66° |
| Minimum focus distance | 0.3 m (0.98 ft) |
| Distance to spot ratio | 24:1 |
| Pseudo dual range | No |
| Image frequency | 8.7 Hz |
| Focus | Fixed |

Detector data

| | |
|----------------------------------|-----------------------------------|
| Focal plane array/spectral range | Uncooled microbolometer/7.5–14 μm |
| Detector pitch | 17 μm |

Image presentation

| | |
|--------------------|--|
| Display resolution | 320 × 240 pixels |
| Screen | 2.4 in. portrait, 80° viewing angle |
| Image adjustment | Automatic |
| Image modes | <ul style="list-style-type: none"> • MSX® (Multi Spectral Dynamic Imaging) • Visual (with temperature reading) |
| Gallery | Yes |

Measurement and analysis

| | |
|------------------------------|---|
| Object temperature range | -25°C to 300°C (-13°F to 572°F) |
| Accuracy | <ul style="list-style-type: none"> • 50°C to 100°C (122°F to 212°F) - acc. of ±1.5°C (±3°F) • 0°C to 50°C/100°C to 300°C (32°F to 122°F/212°F to 572°F) - acc. of ±2.5°C (±5°F) • -25°C to 0°C (-13°F to 32°F) - acc. of ±3°C (±7°F) |
| Minimum measurement distance | 0.26 m (0.85 ft.) |
| Spotmeter | Center spot on/off |
| Color palettes | Iron, Rainbow, Whitehot, Blackhot, Arctic, Lava |

Set-up

| | |
|-----------------------|---|
| Set-up commands | <ul style="list-style-type: none"> • Local adaptation of units, language, date, and time formats • Screen brightness (high, medium, low) • Gallery, deletion of images |
| Emissivity correction | Yes: 4 pre-set levels with custom adjustment of 0.1–0.99 |

Storage of images

| | |
|------------------------|---------------------------------|
| Storage media | 4 GB |
| Image storage capacity | 50,000 images |
| Image file format | JPEG with spot temp in meta tag |

Digital camera

| | |
|---------------|----------------------------------|
| Resolution | 2 MP (1600 × 1200 pixels) |
| Focus | Fixed |
| Field of view | 71° × 56°, adapts to the IR lens |

Worklight and Laser

| | |
|------------------------|---|
| Worklight | LED on/off |
| Light output | 100 lumens |
| Bullseye laser pointer | Indicating the size of the measurement area |
| Laser type | Class 1 |

Data communication interfaces

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|--------------|--|
| Interfaces | USB 2.0 |
| USB standard | USB Type-C High Speed; data transfer/power |

Power system

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|------------------------|--|
| Battery type | Rechargeable Li-ion, 3.7 V battery |
| Battery operating time | 5 hours of scanning (LCM medium brightness) 4.5 hours with laser on (LCM medium brightness) |
| Battery charge life | 30 days minimum |
| Charging system | Battery is charged inside the camera; 4 hrs to 90%, 6 hrs. to 100% |
| Power management | Adjustable: off, 5 minutes, 15 minutes, 30 minutes |

General

| | |
|-----------------------------|---------------------------------------|
| Operating temperature range | -10°C to 45°C (14°F to 113°F) |
| Encapsulation | IP54 (IEC60529) |
| Shock | 25 g (IEC 60068-2-27) |
| Vibration | 2 g (IEC 60068-2-6) |
| Drop test | Designed for 2 m (6.56 ft.) |
| Safety | CE/CB/EN61010/UL |
| Weight | 0.394 kg (13.9 oz) |
| Size (L × W × H) | 210 × 64 × 81 mm (8.3 × 2.5 × 3.2 in) |
| Tripod mounting | UNC ¼" -20 |
| Country of origin | Taiwan |

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

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20-0707-INS-USL

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