\$FLIR



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.



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 OUICKLY & 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

www.iCD.com

• 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

1.800.561.8187

information@itm.com

SPECIFICATIONS

| maging and optical data | |
|---------------------------------|--|
| R resolution | 80 × 60 pixels |
| ligital image enhancement | No |
| hermal sensitivity/NETD | <70 mK |
| ield of view (FOV) | 51° × 66° |
| Ainimum focus distance | 0.3 m (0.98 ft) |
| listance to spot ratio | 24:1 |
| seudo dual range | No |
| mage frequency | 8.7 Hz |
| ocus | Fixed |
| Detector data | |
| ocal plane array/spectral range | Uncooled microbolometer/7.5–14 µm |
| Detector pitch | 17 µm |
| mage presentation | |
| lisplay resolution | 320 × 240 pixels |
| creen | 2.4 in. portrait, 80° viewing angle |
| mage adjustment | Automatic |
| nage modes | MSX[®] (Multi Spectral Dynamic Imaging) Visual (with temperature reading) |
| allery | Yes |
| Aeasurement and analysis | |
| bject temperature range | -25°C to 300°C (-13°F to 572°F) |
| ccuracy | • 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) |
| /inimum measurement distance | 0.26 m (0.85 ft.) |
| potmeter | Center spot on/off |
| color palettes | Iron, Rainbow, Whitehot, Blackhot, Arctic, Lava |
| Set-up | |
| iet-up commands | Local adaptation of units, language, date, and time formats Screen brightness (high, medium, low) Gallery, deletion of images |
| missivity correction | • Screen brightness (high, medium, low) |

| torage media nage storage capacity nage file format | 4 GB |
|---|--|
| | |
| nage file format | 50,000 images |
| nago no format | JPEG with spot temp in meta tag |
| ligital camera | |
| esolution | 2 MP (1600 × 1200 pixels) |
| ocus | Fixed |
| ield of view | 71° × 56°, adapts to the IR lens |
| Vorklight and Laser | |
| Vorklight | LED on/off |
| ight output | 100 lumens |
| ullseye laser pointer | Indicating the size of the measurement area |
| aser type | Class 1 |
| ata communication interfaces | 5 |
| nterfaces | USB 2.0 |
| SB standard | USB Type-C High Speed; data transfer/power |
| ower system | |
| attery type | Rechargeable Li-ion, 3.7 V battery |
| attery operating time | 5 hours of scanning (LCM medium brightness) 4.5 hours with laser on (LCM medium brightness) |
| attery charge life | 30 days minimum |
| harging system | Battery is charged inside the camera; 4 hrs to 90%, 6 hrs. to 100% |
| ower management | Adjustable: off, 5 minutes, 15 minutes, 30 minutes |
| General | |
| perating temperature range | -10°C to 45°C (14°F to 113°F) |
| ncapsulation | IP54 (IEC60529) |
| hock | 25 g (IEC 60068-2-27) |
| ibration | 2 g (IEC 60068-2-6) |
| Irop test | Designed for 2 m (6.56 ft.) |
| afety | CE/CB/EN61010/UL |
| Veight | 0.394 kg (13.9 oz) |
| ize (L × W × H) | 210 × 64 × 81 mm (8.3 × 2.5 × 3.2 in) |
| ripod mounting | UNC ¼"-20 |
| ountry of origin | Taiwan |

NASDAQ: FLIR

Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. ©2020 FLIR Systems, Inc. All rights reserved. 5/2020

20-0707-INS-USL

\$FLIR

1.800.561.8187

The World's Sixth Sense®



information@itm.com