\$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

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• 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

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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

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