



## THERMAL CAMERA FOR AUTOMOTIVE DIAGNOSTICS

# FLIR TG275™

The TG275 is the first FLIR camera specifically designed for the automotive maintenance and repair professional. Featuring IGM™ (Infrared Guided Measurement), this diagnostic tool combines non-contact temperature measurement and thermal imaging to help you quickly find the source of heat-related problems and spot potential faults early. Use the TG275 to record before and after images of repairs so you can reassure customers that the problem has been found and fixed. Affordable and easy to use, the TG275 is ideal for troubleshooting issues related to batteries, relays and switches, exhaust manifolds, AC condensers, drive train components, and much more.

[www.flir.com/tg275](http://www.flir.com/tg275)



### IDENTIFY PROBLEMS QUICKLY

This two-in-one temperature measurement and thermal imaging tool helps you troubleshoot failed systems fast

- See beyond the limitations of single-spot IR thermometers with this 160 × 120 (19,200 pixels) thermal imager
- Measure a wide range of temperatures, from -25°C to 550°C (-13°F to 1022°F)
- Ensure you're measuring the right component by targeting the area with a high-precision, energy-efficient laser



### SUPERIOR IMAGE QUALITY AT AN AFFORDABLE PRICE

See the vehicle in a whole new way thanks to vibrant display and image enhancement features

- FLIR patented MSX® enhancement adds sharp visual detail to thermal images, making it easier to diagnose problems
- Bright 2.4-inch screen clearly displays thermal images in your preferred color palette
- Image recording feature helps to demonstrate that you correctly identified the source of the problem and made the appropriate repairs



### STANDS UP TO TOUGH WORK ENVIRONMENTS

The TG275 is rugged and reliable enough for use in auto shops, outside, or anywhere

- Work safely while still measuring accurately thanks to the camera's 30:1 spot size ratio
- Rugged design with an IP54 enclosure that protects the camera from dirt, dust, and oil
- See into dark, difficult-to-reach areas with the help of the bright LED flashlight

## SPECIFICATIONS

### Image and Optical Data

IR resolution	160 × 120 (19,200 pixels)
Thermal sensitivity/NETD	<70 mK
Field of View (FOV)	57° × 44°
Distance-to-spot ratio	30:1
Minimum focus distance	0.3 m (0.98 ft.)
Imaging range	-25°C to 550°C (-13°F to 1022°F)
Image frequency	8.7 Hz
Focus	Fixed
Digital camera	2 MP, 71° × 56° FOV

### Image Presentation and Modes

Display resolution	320 × 240 pixels
Screen size	2.4 in color LCD, portrait orientation
Aspect ratio	4:3
Image adjustment	Automatic
Visual image	Yes
MSX®	Yes
Gallery	Yes
Color palettes	Iron, Rainbow, White hot, Black hot, Arctic, Lava
Image storage capacity	4 GB for storage of up to 50,000 pictures
Image file format	JPEG

### Measurement and Analysis

Camera temperature range	-25°C to 550°C (-13°F to 1022°F)
Measurement accuracy	±1.5°C (2.7°F) for temperatures 50°C to 100°C (122°F to 212°F) Up to ±3°C (±5.4°F) for temperatures -25°C to 50°C (-13°F to 122°F) Up to ±3°C (±5.4°F) for temperatures 100°C to 550°C (212°F to 1022°F)
IR temperature resolution	0.1°C (0.2°F)
IR thermometer measurement	Continuous scanning
Spotmeter	Center spot on/off
Emissivity correction	Yes: 4 preset levels with custom adjustment of 0.1 to 0.99
Set-up commands	Local adaptation of units, language, date, and time formats Screen brightness (high, medium, low) Gallery, deletion of images

### General

Laser pointer	Center spot and circular area
Laser	Class 1
Interfaces	USB 2.0, Bluetooth® BLE
USB	USB Type-C: data transfer/power
Available languages	Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Spanish, Swedish, traditional Chinese, Turkish
Flashlight	Bright LED flashlight
Battery operating time	5 hours continuous scanning
Battery type	Rechargeable Li-ion battery
Battery voltage	3.7 V
Battery charging time	4 hours to 90%, 6 hours to 100%
Power management	Adjustable: off, 5 min, 15 min, 30 min
IP rating	IP54 (IEC60529)
Drop	Designed for 2 m (6.56 ft)
Safety	CE/CB/EN61010/UL
Operating temperature range	-10°C to 45°C (14°F to 113°F)
Tripod mounting	UNC 1/4"-20
Weight (including battery)	0.394 kg (13.9 oz)
Size (L x W x H)	210 mm × 64 mm × 81 mm (8.3 in × 2.5 in × 3.2 in)
Box contents	Thermal camera, wrist strap lanyard, USB cable, pouch, printed documentation

Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)



\* After product registration on [www.flir.com](http://www.flir.com)

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