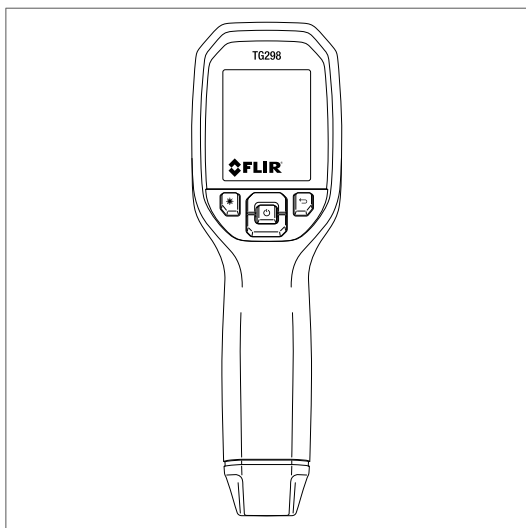**◆FLIR**®

# Quick Start

# Spot Thermal Camera

**MODELS TG298 and TG268**

# Introduction

The FLIR TG298 and TG268 combine condition monitoring, non-contact spot temperature measurements, and thermal imaging in one troubleshooting tool to help quickly locate sources of heat and detect potential faults.

The camera offers four display modes: IR-only, visual, high resolution visual, and MSX® (Multi-Spectral Dynamic Imaging) which adds key details from the visual spectrum to the thermal image.

For complete instructions please refer to the detailed user manual, available from the support site, link below.

**https://support.flir.com**

# Safety

> ⚠ **CAUTION**
>
> Do not point or reflect the laser beam toward anyone's eye. Do not use the laser in potentially explosive areas.
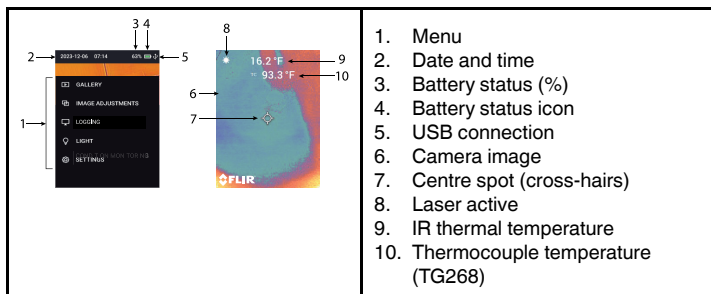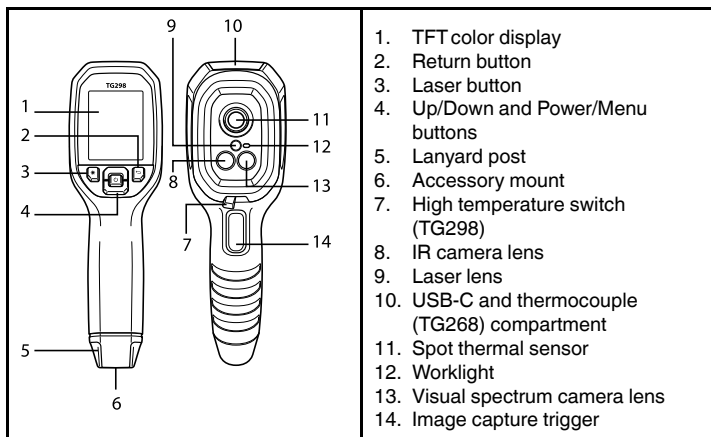>
> **CLASS 1 LASER PRODUCT**
> **IEC 60825-1: 2014**
>
> IT COMPLIES WITH 21 CFR1040.10 AND
> 1040.11 EXCEPT FOR CONFORMANCE
> WITH IEC 60825-1 Ed.3., AS DESCRIBED
> IN LASER NOTICE NO.56, DATED MAY 8, 2019

# Quick Steps

1. Long press the power button ⏻ to switch ON or OFF.
2. Scan a test surface.
3. Read the spot temperature measurement on the display.
4. Pull and release the trigger to capture images.
5. Explore the menu to become familiar with the camera's many features.

# Camera Description



1. TFT color display
2. Return button
3. Laser button
4. Up/Down and Power/Menu buttons
5. Lanyard post
6. Accessory mount
7. High temperature switch (TG298)
8. IR camera lens
9. Laser lens
10. USB-C and thermocouple (TG268) compartment
11. Spot thermal sensor
12. Worklight
13. Visual spectrum camera lens
14. Image capture trigger



1. Menu
2. Date and time
3. Battery status (%)
4. Battery status icon
5. USB connection
6. Camera image
7. Centre spot (cross-hairs)
8. Laser active
9. IR thermal temperature
10. Thermocouple temperature (TG268)

# Menu System

Refer to the User Manual for complete instructions.

- Short press the Menu button to access the main menu.
- Use the arrow buttons to scroll.
- Use the Menu button to select, toggle, or confirm settings.
- Use the Return button to return to the previous screen.
- Use the trigger to exit the menu.
- The menu is locked when the USB cable is connected.

| MAIN MENU | SUB MENU 1 | SUB MENU 2 | ACTION |
|---|---|---|---|
| **GALLERY** | IMAGE FILES | n/a | View and manage images captured manually. See the *Log Results* submenu for images captured in logging mode. |
| | LOG RESULTS | n/a | View and manage data log files, time lapse images, and videos captured in logging mode. |
| **IMAGE ADJUSTMENTS** | IMAGE MODES | n/a | Select MSX, IR Only, Visual, or High Resolution Visual mode. |
| | COLORS | n/a | Select Iron, White Hot, Black Hot, Rainbow, Lava, or Arctic. |
| | MEASUREMENT | CENTER SPOT | Toggle display crosshairs ON and OFF. |
| | | EMISSIVITY | Select a preset or set a custom value. |
| | | THERMOCOUPLE | Toggle ON and OFF (TG268). |

| LOGGING | TEMP SPOT | n/a | Set to ON to start logging temperature readings. Specify time between readings. |
| --- | --- | --- | --- |
| | TIME LAPSE IMAGING | n/a | Set to ON to start capturing camera images and simultaneously logging readings. Specify time between captures. |
| | VIDEO | n/a | Set to ON to start recording video and simultaneously logging readings. |
| | ALARM | n/a | Enable alarm, set high and low thresholds, and select alert type. |
| **LIGHT** | n/a | n/a | Toggle ON and OFF. |

| SETTINGS | DEVICE SETTINGS | BLUETOOTH | Toggle ON and OFF. |
|---|---|---|---|
| | | LASER | Toggle ON and OFF. |
| | | SCREEN BRIGHT-NESS | Select Low, Medium, or High. |
| | | AUTO POWER OFF | Set to 5, 15, 30 minutes or disable. |
| | GENERAL SETTINGS | TEMPERA-TURE UNIT | Select C or F. |
| | | TIME & DATE | Set time, time format, date, and date format. |
| | | LANGUAGE | Select local language. |
| | | SYSTEM INFO | View the serial number, software revision, battery charge status, remaining internal memory. |
| | | GENERAL SYSTEM INFO | View regulatory information. |
| | | FACTORY RESET | Revert to factory default status. |

# Rechargeable Battery

Charge the internal lithium battery by connecting the camera to a 5 V / 1 A charger using the supplied USB cable. The camera's USB port is located under the top flap. A full charge can take up to four hours.

# Basic Specifications

| | |
|---|---|
| IR camera resolution | 160 x 120 pixels |
| Camera display resolution | 320 x 240 pixels |
| Object temperature range | TG298: –13 to +1976°F (–25 to +1080°C) |
| | Engage high temperature switch for measurements > 752°F (400°C) |
| | TG268: –13 to +752°F (–25 to +400°C) |
| Minimum measurement distance | 10 in. (26 cm) |
| Thermocouple temperature range (TG268) | Meter: -22°F to +734°F (-30°C to +390°C) |
| | Supplied thermocouple: 500°F (260°C) maximum |
| Operating temperature | 32 to 113°F (0 to 45°C) |
| Storage temperature | -22 to 131°F (-30 to 55°C) |

# Limited 10-Year Warranty

This product is protected by FLIR's Limited 10-Year Warranty. Visit www.flir.com/testwarranty to read the Limited 10-Year Warranty document.

# Customer Support

| | |
|---|---|
| Customer Support Telephone List | https://support.flir.com/contact |
| Repair, Calibration, and Technical Support | https://support.flir.com |

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