

## P/N: 87502-0202

### Copyright

© 2022, FLIR Systems, Inc.

All rights reserved worldwide. Names and marks appearing herein are either registered trademarks or trademarks of FLIR Systems and/or its subsidiaries. All other trademarks, trade names or company names referenced herein are used for identification only and are the property of their respective owners.

### Document identity

Publ. No.: 87502-0202

Commit: 84733

Language:

Modified: 2022-05-02

Formatted: 2022-05-02

### Website

<http://www.flir.com>

### Customer support

<http://support.flir.com>

### Disclaimer

Specifications subject to change without further notice. Camera models and accessories subject to regional market considerations. License procedures may apply. Products described herein may be subject to US Export Regulations. Please refer to [exportquestions@flir.com](mailto:exportquestions@flir.com) with any questions.



| General description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| <p>The FLIR TG267 lets you both see and evaluate the hot and cold spots that can indicate serious issues. Ideal for commercial electrical, facility maintenance, and HVAC applications, the FLIR TG267 reduces diagnostic time while simplifying repair and maintenance reporting. FLIR MSX enhancement improves image clarity by embossing visual scene details on full thermal images, providing added context to help you accurately target potential faults and troubleshoot repairs. Record images to monitor maintenance history and reassure your customer that problems have been resolved.</p>                                                                                                                                        |                                   |
| <p>Key features:</p> <ul style="list-style-type: none"> <li>• See beyond the limitations of single-spot IR thermometers with a 160 × 120 (19,200 pixel) true thermal imager.</li> <li>• FLIR patented MSX enhancement adds sharp visual detail to thermal images, making it easier to diagnose problems.</li> <li>• Measure a wide range of temperatures, from -25°C to 380°C (-13°F to 716°F).</li> <li>• Multipoint Laser pointer provides a circle to clearly show the area you are measuring.</li> <li>• Thermocouple Probe connector provides the use of General Purpose Type K Thermocouple Probe (to 260°C (500°F))</li> <li>• Rugged and reliable with an IP54 enclosure that protects the camera from dirt, dust, and oil.</li> </ul> |                                   |
| Imaging and optical data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                   |
| IR resolution                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 160 × 120 pixels                  |
| Digital image enhancement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Yes                               |
| Thermal sensitivity/NETD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | < 70 mK                           |
| Field of view (FOV)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 57° × 44°                         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12 μm                             |

P/N: 87502-0202

© 2022, FLIR Systems, Inc.

#87502-0202; r. 84733;

| Image presentation                                                               |                                                                                                                                           |
|----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Display resolution                                                               | 320 × 240 pixels                                                                                                                          |
| Surface brightness (cd/m <sup>2</sup> )                                          | 400                                                                                                                                       |
| Screen size                                                                      | 2.4 in. portrait                                                                                                                          |
| Viewing angle                                                                    | 80°                                                                                                                                       |
| Color depth (bits)                                                               | 24                                                                                                                                        |
| Aspect ratio                                                                     | 4:3                                                                                                                                       |
| Display technology                                                               | TFT                                                                                                                                       |
| Cover glass material                                                             | Optical grade silicon                                                                                                                     |
| Image adjustment                                                                 | Automatic                                                                                                                                 |
| Image modes                                                                      | <ul style="list-style-type: none"> <li>MSX (Multi Spectral Dynamic Imaging)</li> <li>Visual with temperature reading</li> </ul>           |
| Gallery                                                                          | Yes                                                                                                                                       |
| Measurement                                                                      |                                                                                                                                           |
| Object temperature range                                                         | –25 to 380°C (–13 to 716°F)                                                                                                               |
| Object temperature range and accuracy<br>(ambient temp. 15 to 35°C (59 to 95°F)) | –25 to 0°C (–13 to 32°F), acc. ±3°C (±7°F)                                                                                                |
|                                                                                  | 0 to 50°C (32 to 122°F), acc. ±2.5°C (±5°F)                                                                                               |
|                                                                                  | 50 to 100°C (122 to 212°F), acc. ±1.5°C (±3°F)                                                                                            |
|                                                                                  | 100 to 380°C (212 to 716°F), acc. ±2.5%                                                                                                   |
| IR temperature resolution                                                        | 0.1°C (0.2°F)                                                                                                                             |
| Repeatability of reading                                                         | ±1% of reading or ±1°C (2°F), whichever is greater                                                                                        |
| Response time                                                                    | 150 ms                                                                                                                                    |
| IR thermometer measurement                                                       | Continuous scanning                                                                                                                       |
| Minimum measurement distance                                                     | 0.26 m (0.85 ft.)                                                                                                                         |
| Contact thermal measurement interface                                            | Type-K                                                                                                                                    |
| Type-K range                                                                     | –30 to 390°C (–22 to 734°F) ± (1.0% + 3°C (+7°F))<br>(kitted Type-K probe is up to 260°C (500°F))                                         |
| Maximum voltage at thermocouple input                                            | 60V DC or 24Vrms AC                                                                                                                       |
| Measurement analysis                                                             |                                                                                                                                           |
| Spotmeter                                                                        | Center spot on/off                                                                                                                        |
| Color palettes                                                                   | <ul style="list-style-type: none"> <li>Iron</li> <li>Rainbow</li> <li>Whitehot</li> <li>Blackhot</li> <li>Arctic</li> <li>Lava</li> </ul> |

**P/N: 87502-0202**

© 2022, FLIR Systems, Inc.

#87502-0202; r. 84733;

|                                      |                                                                                                                                                                                                                 |
|--------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Set-up</b>                        |                                                                                                                                                                                                                 |
| Set-up commands                      | <ul style="list-style-type: none"> <li>Local adaptation of units, language, date, and time formats</li> <li>Screen brightness (high, medium, low)</li> <li>Gallery, deletion of images</li> </ul>               |
| Emissivity correction                | Yes: 4 pre-set levels with custom adjustment of 0.1–0.99                                                                                                                                                        |
| Languages                            | Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Spanish, Swedish, traditional Chinese, Turkish |
| <b>Service functions</b>             |                                                                                                                                                                                                                 |
| Camera software update               | Download from <a href="http://support.flir.com">http://support.flir.com</a>                                                                                                                                     |
| <b>Storage of images</b>             |                                                                                                                                                                                                                 |
| Storage media                        | eMMC 4GB                                                                                                                                                                                                        |
| Image storage capacity               | 50,000 images                                                                                                                                                                                                   |
| Image file format                    | JPEG with spot temp in meta tag                                                                                                                                                                                 |
| <b>Digital camera</b>                |                                                                                                                                                                                                                 |
| Resolution                           | 2 MP (1600 × 1200 pixels)                                                                                                                                                                                       |
| Focus                                | Fixed                                                                                                                                                                                                           |
| Field of view                        | 71° × 56°, adapts to the IR lens                                                                                                                                                                                |
| <b>Flashlight</b>                    |                                                                                                                                                                                                                 |
| Flashlight                           | Bright LED on/off                                                                                                                                                                                               |
| LED CCT                              | 6500 K                                                                                                                                                                                                          |
| LED CRI                              | 70                                                                                                                                                                                                              |
| Beam angle                           | ±20°                                                                                                                                                                                                            |
| Rated power                          | 0.5 W                                                                                                                                                                                                           |
| Light output (Lumens)                | 100                                                                                                                                                                                                             |
| <b>Laser pointer</b>                 |                                                                                                                                                                                                                 |
| Laser pointer                        | Indicating the size of the measurement area                                                                                                                                                                     |
| Laser                                | Class 1                                                                                                                                                                                                         |
| <b>Data communication interfaces</b> |                                                                                                                                                                                                                 |
| Interfaces                           | USB 2.0, Bluetooth                                                                                                                                                                                              |
| USB                                  | USB Type-C: data transfer/power                                                                                                                                                                                 |
| USB standard                         | USB 2.0 High Speed                                                                                                                                                                                              |
| Bluetooth                            | BLE                                                                                                                                                                                                             |
| <b>Power system</b>                  |                                                                                                                                                                                                                 |
| Battery type                         | Rechargeable Li ion battery                                                                                                                                                                                     |
| Battery voltage                      | 3.6 V                                                                                                                                                                                                           |
| Battery capacity                     | 3000 mAh                                                                                                                                                                                                        |

**P/N: 87502-0202**

© 2022, FLIR Systems, Inc.

#87502-0202; r. 84733;

| Power system                     |                                                                                                                                                                                                                                                                           |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery operating time           | <ul style="list-style-type: none"> <li>5 hours of scanning (LCM medium brightness)</li> <li>4.5 hours with laser on (LCM medium brightness)</li> </ul>                                                                                                                    |
| Battery charge life              | 30 days minimum                                                                                                                                                                                                                                                           |
| Charging system                  | Battery is charged inside the camera                                                                                                                                                                                                                                      |
| Charging time                    | 4 hours to 90%, 6 hours to 100%                                                                                                                                                                                                                                           |
| Charging temperature             | 0 to 45°C (32 to 113°F)                                                                                                                                                                                                                                                   |
| Power management                 | Adjustable: off, 5 minutes, 15 minutes, 30 minutes                                                                                                                                                                                                                        |
| Battery documents                | For documents like MSDS and UN38.3 test reports/summaries, see: <a href="https://support.flir.com/resources/msds">https://support.flir.com/resources/msds</a>                                                                                                             |
| Environmental data               |                                                                                                                                                                                                                                                                           |
| Operating temperature range      | -10 to 45°C (14 to 113°F)                                                                                                                                                                                                                                                 |
| Storage temperature range        | -30 to 55°C (-22 to 131°F)                                                                                                                                                                                                                                                |
| Humidity (operating and storage) | 0-90% relative humidity (RH) (0 to 37°C (32 to 98.6°F))<br>0-65% RH (37 to 45°C (98.6 to 113°F))<br>0-45% RH (45 to 55°C (113 to 131°F))                                                                                                                                  |
| EMC                              | <ul style="list-style-type: none"> <li>EN 61000-6-3</li> <li>EN 61000-6-2</li> <li>FCC 47 CFR Part 15 Class B</li> </ul>                                                                                                                                                  |
| Magnetic fields                  | EN 61000-4-8 class 3                                                                                                                                                                                                                                                      |
| Radio spectrum                   | <ul style="list-style-type: none"> <li>ETSI EN 300 328</li> <li>FCC Part 15.249</li> <li>RSS-247 Issue 2</li> <li>EN 301 489-1:2011</li> <li>EN 301 489-17:2009</li> </ul>                                                                                                |
| Encapsulation                    | IP 54 (IEC60529)                                                                                                                                                                                                                                                          |
| Shock                            | 25 g (IEC 60068-2-27)                                                                                                                                                                                                                                                     |
| Vibration                        | 2 g (IEC 60068-2-6)                                                                                                                                                                                                                                                       |
| Drop                             | Designed for 2 m (6.56 ft.)                                                                                                                                                                                                                                               |
| Safety                           | CE/CB/EN61010/UL                                                                                                                                                                                                                                                          |
| Environmental safety             | <ul style="list-style-type: none"> <li>REACH Regulation EC 1907/2006</li> <li>RoHS2 Directive 2011/65/EC</li> <li>WEEE Directive 2012/19/EC</li> <li>JIS C 6802:2011 laser directive (ongoing)</li> <li>IEC 60825-1 class I laser directive</li> <li>FDA laser</li> </ul> |
| Humidity requirement             | <ul style="list-style-type: none"> <li>IEC 60068-2-30 / 24h 95% Relative Humidity +25 - +70°C / 2 Cycles (Storage)</li> <li>IEC 60068-2-30 / 24h 95% Relative Humidity +25 - +40°C / 2 Cycles (Operating)</li> </ul>                                                      |
| Declaration of conformity        | See: <a href="https://support.flir.com/resources/DoC">https://support.flir.com/resources/DoC</a>                                                                                                                                                                          |



## FLIR TG267

**P/N: 87502-0202**

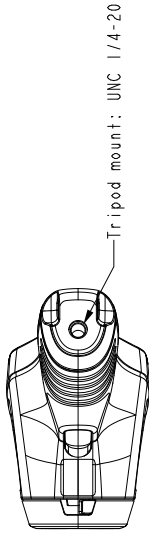
© 2022, FLIR Systems, Inc.

#87502-0202; r. 84733;

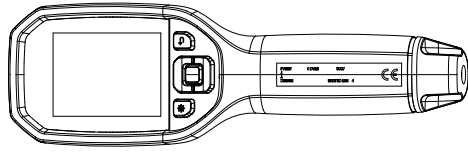
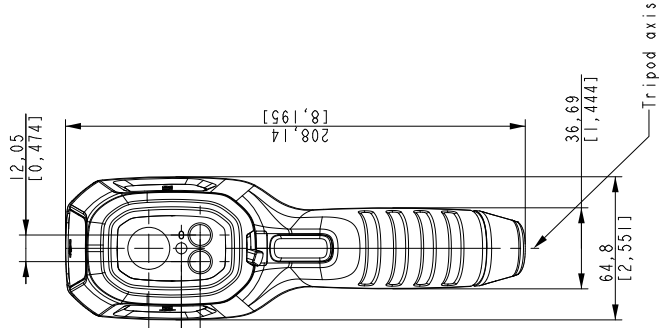
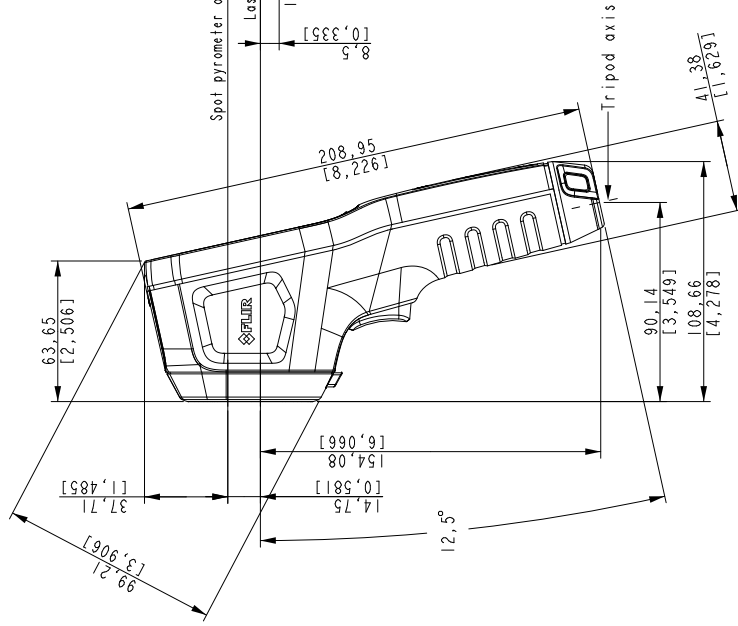
| Physical data              |                                                                                                                                                                                                                        |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight (including battery) | 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                                                                                                                                                                                                              |
| Warranty and service       |                                                                                                                                                                                                                        |
| Warranty                   | <a href="http://www.flir.com/warranty/">http://www.flir.com/warranty/</a>                                                                                                                                              |
| Shipping information       |                                                                                                                                                                                                                        |
| Packaging, type            | Cardboard box                                                                                                                                                                                                          |
| Packaging, contents        | <ul style="list-style-type: none"><li>• TG267</li><li>• FLIR Thermal Studio Starter</li><li>• Printed documentation</li><li>• Wrist strap lanyard</li><li>• USB cable</li><li>• Pouch</li><li>• Thermocouple</li></ul> |
| Packaging, weight          | 0.952 kg (2.10 lb.)                                                                                                                                                                                                    |
| Packaging, size            | 284 × 151 × 105 mm (11.2 × 5.95 × 4.12 in.)                                                                                                                                                                            |
| EAN-13                     | 7332558023839                                                                                                                                                                                                          |
| UPC-12                     | 845188019587                                                                                                                                                                                                           |
| Country of origin          | Taiwan                                                                                                                                                                                                                 |

### Supplies & accessories:

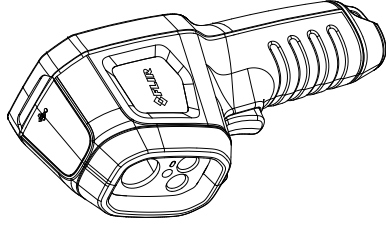
- T130976ACC; Retractable lanyard, 7 N (24 oz)



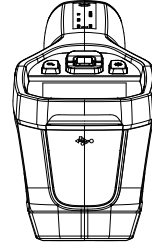
Tripod mount: UNC 1/4-20



SCALE 0,500



SCALE 0,500



|                                                 |                |                      |               |
|-------------------------------------------------|----------------|----------------------|---------------|
| Modified<br>2020-03-12                          | Check<br>Qlsda | Drawn by<br>Qlsda RI | Size<br>A3    |
| Determination                                   |                |                      |               |
| Basic Dimension TG165-X / TG267 / TG275 / TG297 |                |                      |               |
| Scale<br>1:2                                    |                |                      | Sheet<br>1(1) |
| Drawing No.                                     |                |                      | Size<br>A     |