



### Key Features

- Automatically detects compressed air and vacuum leaks from up to 130 meters (427 feet) away.
- Noise suppression technology ensures uninterrupted use in noisy industrial environments, improving accuracy and usability.
- Band-pass filter enables manual tuning of the frequency range for precise inspections.
- Lightweight design enables intuitive, single-handed operation, ideal for fast-paced inspections across large facilities.
- Touch-screen interface captures high-resolution images with real-time quantifiable leak-rate and cost prediction for prioritizing repairs.
- Seamless reporting options, including online analysis via FLIR Acoustic Viewer and offline reporting with FLIR Thermal Studio software.

### Main Applications

- Leak detection in manufacturing and process industries
- Preventative maintenance and equipment optimization
- Energy efficiency and compliance

### SPECIFICATIONS

| Measurement & Analysis                    |   |
|---|---|
| Acoustic measurement                      | 96 low-noise MEMS microphones, real-time sound visualization                      |
| Detection threshold                       | 20 kHz: -5 dB<br>35 kHz: 9 dB<br>50 kHz: 15 dB<br>80 kHz: 41 dB<br>100 kHz: 56 dB |
| Bandwidth                                 | 2 kHz to 100 kHz  |
| Directional resolution                    | From 1° up to 0.125°  |
| Operating distance                        | From 0.3 m (1.0 ft) up to 130 m (427 ft)  |
| Auto distance                             | Automatic distance up to 5 m (16.45 ft)   |
| Leak localization and detection           | Automatic leak recognition including estimated leak size and annual cost          |
| Leak rate detection threshold             | 0.5 m: 0.004 l/min<br>2.5 m: 0.010 l/min<br>6.0 m: 0.017 l/min                    |
| Autofilter, automatic frequency selection | No  |
| Band-pass filter                          | Yes   |
| Supported gases                           | Compressed air  |
| Mechanical mode                           | No  |
| Imaging & Optical                         |   |
| Digital camera                            | 12 MP color   |
| Camera field of view                      | 65° diagonal  |
| Video frame rate                          | Camera: 60 fps / Acoustic image: 30 fps / Screen: 70 fps                          |
| Zoom                                      | 8x Digital zoom   |
| Video image resolution                    | 1280 × 720  |

| User Interface               |   |
|------------------------------|---|
| Display                      | Size: 5 in. 1280 × 720, Resistive touch screen, TFT LCD, MIPI DSI   |
| Integrated flashlight        | LEDs, two modes: ON / OFF   |
| Analysis & Reporting         |   |
| Online                       | FLIR Acoustic Viewer (cloud service)  |
| Offline                      | FLIR Thermal Studio (desktop software)  |
| Communication & Data Storage |   |
| Data transfer                | - Wi-Fi 2.4 GHz and 5 GHz IEEE 802.11.b/g/n/ac wireless LAN<br>- USB memory stick   |
| Camera software update       | - Automatic over Wi-Fi<br>- USB via computer  |
| Still image format           | .nls and .jpg   |
| Video recording & format     | Up to 5 minutes (.nls format)   |
| Storage, internal            | 32 GB (SD card)   |
| Storage, external            | 8 GB (USB), Cloud storage capacity is unlimited   |
| Image annotations            | Image tags and comments   |
| Power                        |   |
| Camera power input           | Nominal input voltage: 12 V DC<br>Max input: 17 V DC, 3.3 A (limited)   |
| Battery                      | Li-ion rechargeable battery pack (RRC 2054): 14.4 V DC, 3.45 Ah, 49.68 Wh<br>Usage: Up to 2.5 h<br>Charge time: approx. 2 h<br>Max output: 16.8 V DC, 5 A |
| Battery charger              | Input: 19 V to 26 V DC, 2.8 A<br>Max output: 17.4 V DC, 4.8 A   |



### SPECIFICATIONS, CONT.

| Environmental Data              |   |
|---------------------------------|---|
| Operating temperature range     | -10°C to 50°C (14°F to 122°F)   |
| Storage temperature range       | -20°C to 50°C (-4°F to 122°F) max<br>-20°C to 25°C (-4°F to 77°F) recommended             |
| Relative humidity               | 0% to 90% recommended   |
| EMC                             | CFR47 FCC Part 15 Subpart B,  |
| Radio                           | CFR47 FCC Part 15 Subpart C/E, ETSI EN 301 489-1/-17,<br>ETSI EN 300 328, ETSI EN 301 893 |
| Ingress protection              | IP54  |
| Safety                          | IEC 62368-1   |
| Declaration of conformity       |   |
| Physical Data                   |   |
| Camera size                     | 184 mm x 276 mm x 167 mm (7 in x 11 in x 6 in)  |
| Camera weight                   | ~ 1.2 kg  |
| Battery size                    | 85 mm x 77 mm (RRC2504)   |
| Battery weight                  | ~ 0.25 kg   |
| Total weight (camera + battery) | ~ 1.45 kg   |

| Warranty & Service   |   |
|----------------------|---|
| Warranty             |   |
| Shipping Information |   |
| Packaging, type      | Cardboard box   |
| Packaging, contents  | - Camera<br>- Battery (2 ea)<br>- Battery charger<br>- Power cable (4 ea)<br>- Neck strap<br>- Hard transport case<br>- License card: FLIR Si-series Plugin for FLIR Thermal Studio, Perpetual license<br>- Printed documentation<br>- USB memory stick |
| Packaging, weight    | 6 kg (13 lb)  |
| Packaging, size      | 490 mm x 365 mm x 190 mm (19.3 in x 14.4 in x 7.5 in)   |
| EAN-13               | 7332558035139   |
| UPC-12               | 845188032838  |
| P/N                  | Si1-LD: T912537<br>Si1-LD (No Wi-Fi): T912544   |

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