

## P/N: T912339

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### 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	
<b>Industrial Acoustic Imaging Camera for Pressurized Leak Detection and Mechanical Fault Detection</b>	
Key features:	
<ul style="list-style-type: none"> <li>• Detects, locates, and measures compressed air and gas leaks; including bearing fault detection, from up to 200 m (656 ft) away</li> <li>• Built-in measurement and cost analysis for industrial gases including ammonia, hydrogen, CO<sub>2</sub>, methane, helium, and argon</li> <li>• One-handed operation with automatic tuning, 8x zoom, and a 12 MP digital camera</li> <li>• Mechanical fault mode, automatic selection, and optimization of filters simplifies finding critical mechanical issues, such as bearing faults</li> <li>• Fleet management functionality for efficient tool usage and maintenance across large-scale operations</li> </ul>	
Main applications:	
<ul style="list-style-type: none"> <li>• Detecting and quantifying leaks in manufacturing, production, and assembly applications; in all applications using compressed air</li> <li>• Early leak detection for enhancing safety and compliance while minimizing costly repairs</li> <li>• Rapid, accurate leak detection, boosting efficiency and client satisfaction in compressed air and gas system maintenance</li> <li>• Mechanical fault mode to detect faulty bearings to help plan repairs and avoid downtime</li> </ul>	
Acoustic measurement	
Detection threshold	20 kHz: -7 dB SPL 35 kHz: 4 dB SPL 50 kHz: 10 dB SPL 80 kHz: 36 dB SPL 100 kHz: 51 dB SPL
Bandwidth	2 kHz to 130 kHz
Directional resolution	From 1° up to 0.125°
Operating distance	From 0.3 m (1.0 ft) up to 200 m (656 ft)
Leak localization and detection	Automatic leak recognition including estimated leak size and annual cost
Leak rate detection threshold	0.0032 l/min from 2.5 m, 0.0044 l/min from 6 m
Supported gases	Compressed air, hydrogen, CO <sub>2</sub> , methane, natural gas, helium, argon, ammonia
Other acoustic analysis modes	Mechanical fault detection



## FLIR Si2-LD

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<b>Imaging and Optical</b>	
Digital camera	12 MP color
Camera field of view	75° diagonal
Video frame rate	Camera: 60 fps / Acoustic image: 30 fps / Screen: 70 fps
Zoom	8x Digital zoom
Video image resolution	1280 × 720
<b>User interface</b>	
Display	Size: 5 in. 1280 × 720 Resistive touch screen, TFT LCD, MIPI DSI
Integrated flashlight	LEDs, three modes off, normal and bright
<b>Analysis and Reporting</b>	
Online	FLIR Acoustic Camera Viewer (cloud service) <a href="http://www.acousticviewer.flir.com">www.acousticviewer.flir.com</a>
Offline	FLIR Thermal Studio (desktop software)
<b>Communication and Data storage</b>	
Data transfer	Wi-Fi 2.4 GHz and 5 GHz IEEE 802.11.b/g/n/ac wireless LAN USB memory stick
Camera software update	Automatic Over The Air (OTA) wireless update or via USB connection
Still image format	.niz and .jpg
Video recording & format	Up to 5 minutes (.niz format)
Storage, internal	128 GB (SD card)
Storage, external	USB 8 GB, Cloud storage capacity is unlimited
Image annotations	Image tags and comments
<b>Power supply</b>	
Camera power input	Nominal input voltage: 12 V DC 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  Usage: Up to 2.5 h (depends on ambient conditions & usage, needs to be retested and confirmed with final product)  Charge time: approx. 2 h Max output: 16.8 V DC, 5 A
Battery charger	Input: 19-26 V DC, 2.8 A Max output: 17.4 V DC, 4.8 A
<b>Environmental data</b>	
Operating temperature range	-10°C to 50°C (14°F to 122°F)
Storage temperature range	-20°C to 50°C max -20°C to 25°C recommended (determined by the battery)
Relative humidity	0-90% recommended
EMC	CFR47 FCC Part 15 Subpart B
Radio	CFR47 FCC Part 15 Subpart C/E, ETSI EN 301 489-1/-17/-19, ETSI EN 300 328, ETSI EN 301 893

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<b>Environmental data</b>	
Protection class	IP54
Safety	IEC 62368-1
Declaration of conformity	See: <a href="https://support.flir.com/resources/DoC">https://support.flir.com/resources/DoC</a>
<b>Physical data</b>	
Camera size	288 mm × 182 mm × 159 mm (11 in × 7 in × 6 in)
Camera weight	~ 1.2 kg
Battery size	85 mm × 77 mm (RRC2504)
Battery weight	~ 0.25 kg
Total weight (camera + battery)	~ 1.45 kg
<b>Warranty and Service</b>	
Warranty	<a href="http://www.flir.com/warranty/">http://www.flir.com/warranty/</a>
<b>Shipping information</b>	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> <li>• Camera</li> <li>• Battery (2 ea)</li> <li>• Battery charger</li> <li>• Power cable (4 ea)</li> <li>• Neck strap</li> <li>• Hard transport case</li> <li>• License card: FLIR Si-series Plugin for FLIR Thermal Studio, Perpetual license</li> <li>• Printed documentation</li> <li>• USB memory stick</li> </ul>
Packaging, weight	6 kg (13 lb)
Packaging, size	490 mm × 365 mm × 190 mm (19.3 in × 14.4 in × 7.5 in)
EAN-13	7332558033029
UPC-12	845188030162

### Supplies & accessories:

- T911987; Acoustic camera tester incl. table tripod
- T912186; Battery charger incl. power supply
- T912306; Battery for FLIR Si2 series
- T300527; FLIR Si-series Plugin for FLIR Thermal Studio, Perpetual license
- T300243; FLIR Thermal Studio Pro, 1 Year Subscription
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license
- T850154; Thermal Studio Pro Perpetual 10 activa
- T850153; Thermal Studio Pro Perpetual 15 activa
- T850152; Thermal Studio Pro Perpetual 20 activa
- T850151; Thermal Studio Pro Perpetual 30 activa
- T850150; Thermal Studio Pro Perpetual 40 activa
- T850149; Thermal Studio Pro Perpetual 50 activa
- T850146; Thermal Studio Std Perpetual 20 activa
- T850145; Thermal Studio Std Perpetual 30 activa
- T850144; Thermal Studio Std Perpetual 40 activa
- T850143; Thermal Studio Std Perpetual 50 activa
- T850136; Thermal Studio Pro 1Y 10 activa
- T850135; Thermal Studio Pro 1Y 15 activa
- T850134; Thermal Studio Pro 1Y 20 activa
- T850133; Thermal Studio Pro 1Y 30 activa



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- T850132; Thermal Studio Pro 1Y 40 activa
- T850131; Thermal Studio Pro 1Y 50 activa
- T850128; Thermal Studio Std 1Y 20 activa
- T850127; Thermal Studio Std 1Y 30 activa
- T850126; Thermal Studio Std 1Y 40 activa
- T850125; Thermal Studio Std 1Y 50 activa