



## Industrial Acoustic Imaging Camera

# FLIR Si124™

The FLIR Si124 is an easy-to-use, stand-alone system for locating pressurized leaks in compressed-air systems. This lightweight, one-handed solution is designed to help maintenance, manufacturing, and engineering professionals identify leaks up to 10 times faster than with traditional methods. Built with 124 microphones, the Si124 produces a precise acoustic image that visually displays ultrasonic information, even in loud industrial environments. The acoustic image is transposed in real time on top of a digital camera picture, which allows the user to accurately pinpoint the source of the sound. Equipped with the FLIR Acoustic Camera Viewer cloud service, this smart tool automatically saves images to the cloud after they're captured. Users can then access stored files and separate sound sources for deeper analysis and classification of problems. Through a regular maintenance routine, the FLIR Si124 can help facilities save money on utility bills and delay the expense of installing new compressors.

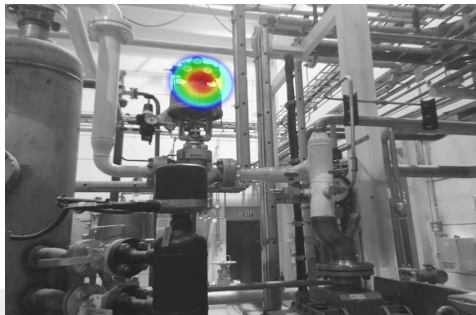
[www.flir.com/si124](http://www.flir.com/si124)



### FIND LEAKS FASTER

Detect compressed air leaks up to 10 times faster with sound imaging vs. traditional methods

- Quickly locate leaks and automatically upload, analyze, and classify problems to improve the reliability in production lines
- Locate leaks precisely, even in loud industrial environments, thanks to high-resolution acoustic images and 124 built-in microphones
- Instantly view the leak rate onscreen in real time (l/min or CFM)



### REDUCE COSTS, SAVE MONEY

Minimize excess costs that result from compressed-air leaks

- Delay the expense of installing new or additional compressors by maintaining existing ones
- Ensure proper air pressure to pneumatic equipment to save on energy costs
- Quantify leak size to understand how much energy was lost and the amount of money saved by discovering the problem
- Optimize staff time, as minimal training is required to use Si124



### INSPECT EASILY

Classify problem severity instantly with this convenient, smart tool

- Validate problems in real time
- Upload, store, and backup data; create reports; and conduct deep analysis using FLIR Acoustic Camera Viewer cloud analytics
- Operate the lightweight camera with one hand, and easily review images on-screen even in bright, outdoor conditions

## SPECIFICATIONS

Acoustic specifications		Si124	
Acoustic measurement	124 low-noise MEMS microphones, real-time sound visualization		
Sensitivity, accuracy	<0 dB		
Dynamic range	>120 dB		
Bandwidth	2 kHz to 31 kHz, adjustable range		
Distance	From 0.3 m (1.0 ft) up to 100 m (328 ft)		
Leak rate	In typical industrial environment: <ul style="list-style-type: none"> <li>• &gt;0.032 l/min @ 3 bar from 3 m (9.8 ft)</li> <li>• &gt;0.05 l/min @ 3 bar from 10 m (32.8 ft)</li> </ul> Absolute minimum detection in quiet environment: 0.016 l/min @ 1.2 bar from 0.3 m (1.0 ft)		
User interface			
Display	Size: 5 in, 800 × 480 Color: 24 bit RGB Brightness: 1000 cd/m <sup>2</sup> (adjustable)		
Input device	Resistive touchscreen		
Power On indicator	Red LED		
Video image resolution	1640 × 1234		
Video frame rate	25 fps		
Acoustic image frame rate	30 fps		
Zoom	2x digital zoom		
Communication and data storage			
Wireless data transfer	Wi-Fi 2.4 GHz and 5 GHz IEEE 802.11.b/g/n/ac wireless LAN		
Storage, internal	32 GB SD card, non-removable		
Storage, external	8 GB USB mass storage, provided with device		
Power supply			
Nominal input voltage	12 V Max input: 15 V 2 A		
External battery	LiFePO 12 V 7 Ah, 84 Wh Usage: 7 h (depends on ambient conditions) Charge time: 4 to 6 h		
Battery charger	Input: 100-240 V – 50/60Hz 1.5 A Max output: 13.8 V, 4.0 A		
Internal battery (only for camera backup use)	Li-Ion 6 Wh		
Environmental		Physical data	
Operating and storage temperature range	Recommended -10°C to 50°C (14°F to 122°F)		
Operating and storage humidity	Recommended 0 to 90%		
Camera size	273 × 170 × 125 mm (10.7 × 6.7 × 4.9 in)		
Camera weight	Camera: 980 g (2.2 lb)		
Battery size	90 × 145 × 65 mm (3.5 × 5.7 × 2.6 in)		
Battery weight	985 g (2.2 lb)		
Total weight, incl. all accessories	2.9 kg (6.4 lb)		
Battery cord length	0.9 m (3.0 ft), extended 2 m (6.6 ft)		

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

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