\$FLIR

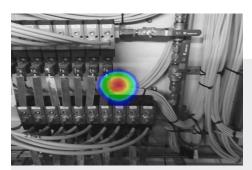


Industrial Acoustic Imaging Camera

FLIR Si124™

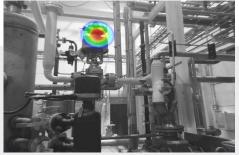
The FLIR Si124 is an easy-to-use, stand-alone system for locating pressurized leaks in compressed-air systems. This lightweight, one-handed solution is designed to help maintenance, manufacturing, and engineering professionals identify leaks up to 10 times faster than with traditional methods. Built 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



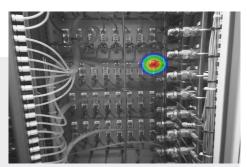
FIND LEAKS FASTER Detect compressed air leaks up to 10 times faster with sound imaging vs. traditional methods

- 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 (I/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: • >0.032 I/min @ 3 bar from 3 m (9.8 ft) • >0.05 I/min @ 3 bar from 10 m (32.8 ft) Absolute minimum detection in quiet environment: 0.016 I/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/m² (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-lon 6 Wh

Environmental		
Operating and storage temperature range	Recommended -10°C to 50°C (14°F to 122°F)	
Operating and storage humidity	Recommended 0 to 90%	
Physical data		
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

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20-0146-INS-Si124-datasheet-compressed-A4

