

FLIR Si2x-LD™

Hazardous Location Industrial Acoustic Imaging Camera for Pressurized Leak Detection and Mechanical Fault Detection



Key Features:

- Detects, locates, and measures compressed air leaks, gas leaks, and bearing faults from up to 200 m (656 ft) away
- Offers built-in measurement and cost analysis for industrial gases including ammonia, hydrogen, carbon dioxide, methane, helium, and argon
- Supports one-handed operation with automatic tuning, 8x zoom, and a 12 MP digital camera
- Features mechanical fault mode, automatic selection, and optimization of filters for finding critical mechanical issues, such as bearing faults
- Includes fleet management functionality for efficient tool usage and maintenance across large-scale operations

Main Applications:

- Preventative maintenance in various Ex-rated industrial applications
- Early leak detection for enhancing safety and for "pre-turnaround" tightness inspections
- Rapid, accurate leak detection that boosts efficiency and client satisfaction in compressed air and gas system maintenance
- Detection of faulty bearings to help plan repairs and avoid downtime

www.flir.com/Si2x-LD

SPECIFICATIONS

FLIR Si2x-LD		
Acoustic measurement	124 low-noise MEMS microphones, real-time sound visualization	
Bandwidth	2 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, carbon dioxide, methane, natural gas, helium, argon, ammonia, nitrogen, steam	
Other acoustic analysis modes	Mechanical fault detection	
Analysis and Reporting		
On-line	FLIR Acoustic Camera Viewer (cloud service)* acousticviewer.flir.com	
Off-line	FLIR Thermal Studio (desktop software)*	
Imaging and Optical		
Digital camera	12 MP color	
Camera field of view	75° diagonal	
Video frame rate	Camera: 60 fps / Acoustic image: 30 fps / Screen: 70 fps	

^{*}See reverse for comparison

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		
Communication and Data Storage			
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	.nlz and .jpg		
Video recording and format	Up to 5 minutes (.nlz format)		
Storage, internal	128 GB (SD card)		
Storage, external	USB 8 GB, Cloud storage capacity is unlimited		
Image annotations	Image tags and comments		
Power Supply			
Battery	Li-lon rechargeable battery pack Usage: Up to 2.5 h (Charge time: approx. 2 h		
Battery charger	Input: 19-26 V DC, 2.8 A Max output: 17.4 V DC, 4.8 A		

For more information and to find your local support number, visit: FLIR.com/contact/instruments-support

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Revised 10/03/24 FLIR_Si2x-LD_datasheet_A4_RH24-0637-INS



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SPECIFICATIONS, CONT.

Environmental Data			
Operating temperature range	-10°C to 50°C (14°F to 122°F)		
Ingress protection	IP54		
Physical Data			
Camera size	184 × 276 × 167 mm (7.2 × 10.8 × 6.5 in)		
Camera weight	~1.2 kg		
Battery size	85 mm × 77 mm (RRC2504)		
Total weight (camera + battery)	~1.45 kg		
Warranty and Service			
Warranty	support.flir.com/Si2		
Shipping Information			
Packaging, weight	6 kg (13 lb)		
Packaging, size	490 mm × 365 mm × 190 mm (19.3 in × 14.4 in × 7.5 in)		
Hazardous Location Ratings			
3rd Party Certification for Zone 2 Gas & Dust. Certifications available at support.flir.com/Si2			

For the most up-to-date product specifications visit support.flir.com/si2. Specifications subject to change without notice.

ANALYSIS SOFTWARE COMPARISON

Feature	FLIR Acoustic Viewer	FLIR Thermal Studio Plug-in
Highlight	Enables enterprise customer scaling	Enables custom reporting for thermal and acoustic imaging
Workspace	On-line	Off-line
Snapshot editing and annotation	Yes	Yes
Video playback	Yes	Yes
IR imaging support	No	Yes
Organizational module	Yes	No
API for integration	Yes	No
Export (.xls) summary of snapshots	Yes	No
Storage location	FLIR Acoustic Cloud	Local
Cost	Free	Free and paid options
Optimal user	Owns multiple cameras Requires tool fleet management, data sharing and organization Requires unlimited data storage	Requires thermal and acoustic images in the same reporting software Requires highly customized reports Requires off-line analysis and reporting

Best-Nr. 7077550 Si2x ŠÖ Set € 21.399,00

Best-Nr. 7077555 Si2x PRO Set € 27.899,00



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