

FLIR Si124-LD

P/N: T912113

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Website

http://www.flir.com

Customer support

http://support.flir.com

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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 with any questions.



General description

The FLIR Si124 is a system for acoustic image measurements and signal analysis.

The FLIR Si124 uses 124 microphones to form a very precise acoustic image in the desired direction. This acoustic image is transposed in real-time on top of a digital camera picture, which allows the user to accurately see from which directions sound is arriving at the camera. Interesting sound sources can then be separated and saved for deeper analysis, using the FLIR Acoustic Camera Viewer cloud service.

The camera is a smart acoustic device for locating leaks in compressed-air systems. It is up to ten times faster than traditional models, and instantly shows the located leaks on the camera view combined with estimated leak size and annual cost.

Even the human ear can sometimes hear an air leak in a quiet environment, but in a typical industrial environment it is generally impossible to hear even bigger leaks due to loud background noise. The FLIR Si124 can very effectively filter out the industrial noise, allowing the user to locate quiet sounds even in noisy environments.

Features

- Handheld: Lightweight unit with a carrying bag for the battery and auxiliary parts.
- Cloud service: Upload the measurements to the FLIR Acoustic Camera Viewer for storage and analysis.
- · Leak localization and detection including estimated leak size and annual cost.
- Quickly create reports in FLIR Acoustic Camera Viewer.
- Environment: For outdoor and indoor industrial use.

Acoustic specifications		
Acoustic measurement	124 low-noise MEMS microphones, real-time sound visualization	
Dynamic range, low limit	< -15 dB (frequency-dependent)	
Dynamic range, high limit	over 120 dB (frequency-dependent)	
Bandwidth	2 kHz to 35 kHz, adjustable range	
Distance	from 0.3 m (1.0 ft) up to 130 m (430 ft)	
Severity assessment	Automatic Al-based severity assessment including recommended actions	

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- >0,032 l/min @ 3 bar from 3 m (9.8 tt) - >0,05 l/min @ 3 bar from 10 m (32.8 ft) 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/m2 (adjustable) Input device Resistive touchscreen LED (red) Video image resolution 800 × 480 Camera FOV Video frame rate 25 fps Acoustic image frame rate 30 fps Zoom Languages Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuquese, Russian, Simplified Chinese, Spanish, Swedish, Thai, Traditional Chinese, Turkish, Vietnamese Communication and data storage Wireless data transfer WirFi 2.4 GHz and 5 GHz IEEE 802.11.b/g/n/ac wireless LAN Camera software update - Automatic over Wi-Fi - USB via computer Storage, internal 32 GB / 2000 snapshots (typical) SD card, non-removable Storage, external 8 GB / 500 snapshots (typical) USB mass storage, provided with device Power supply Camera power input Nominal input voltage 12 V Max input: 15 V 2.5 A External battery Nominal input voltage 12 V Max input: 15 V 2.5 A External battery Input: 100-240 V AC, 5060 Hz, 1.3 A Max output: 13.8 V, 4.0 A Battery charger Input: 100-240 V AC, 5060 Hz, 1.3 A Max output: 11.4 0, 4.0 A Internal battery (only for camera backup use) Li-Ion 6 Wh Environmental data Operating temperature range -10 to 50°C (14 to 122°F)	Leak localization and detection		
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Operating temperature range -10 to 50°C (14 to 122°F)	Internal battery (only for camera backup use)	Li-lon 6 Wh	
	Environmental data		
Storage temperature range –20 to 70°C (–4 to 158°F)	Operating temperature range	-10 to 50°C (14 to 122°F)	
	Storage temperature range	−20 to 70°C (−4 to 158°F)	

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Environmental data			
Relative humidity	Recommended 0 to 90%		
EMC	 FCC 47 CFR Part 15 Subpart B Class A EN 301 489-1 EMC for radio equipment EN 301 489-17 ICES-003 Issue 6 Class A 		
Radio	 EN 300 328 v2.1.1 EN 300 893 v2.1.1 FCC 47 CFR Part 15 Subpart C FCC 47 CFR Part 15 Subpart E Raspberry Pi RPI3P-MODBP FCC ID: 2ABCB-RPI3BP ICED: 20953-RPI3P 		
Protection class	IP51		
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	0.75 m (2.46 ft), extended 1.5 m (4.92 ft)		
Warranty and service			
Warranty	http://www.flir.com/warranty/		
Shipping information			
Packaging, type	Cardboard box		
Packaging, contents	Camera Battery Battery cable Battery charger Battery pouch Camera hand strap Camera pouch Printed documentation USB memory stick		
Packaging, weight	4.5 kg (9.9 lb)		
Packaging, size	40 × 40 × 35 cm (15.7 × 15.7 × 13.8 in)		
EAN-13	7332558028582		
UPC-12	845188025557		
Country of origin	Finland		

Supplies & accessories:

- T911982; Rechargeable battery
- T911984; Battery charger
- T911981; Cable from camera to battery
- T911980; Camera pouch
- T911987; Acoustic camera tester incl. table tripod
- T912115; Option, No radio

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June 17, 2020 Täby, Sweden AQ320396

CE Declaration of Conformity - EU Declaration of Conformity

Product: FLIR Si124

Name and address of the manufacturer:

FLIR Systems AB PO Box 7376

SE-187 15 Täby, Sweden

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration: FLIR Si124.

The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

Directives:

Directive 2011/65/EU RoHS and 2015/830/EU (Phtalates) and EU 2017/2102

Directive 2014/53/EU Radio Equipment Directive (RED)

Standards:

Emission: ETSI EN 301489-1 v2.2.3 ERM – EMC for radio equipment

ETSI EN 301489-17 v3.1.1 ERM – EMC Wideband data

Immunity:EN 61000-6-2 2019Immunity for industrial environmentsRadio:ETSI EN 300 328 v2.1.1Harmonized EN covering essential

requirements of the R&TTE Directive

ETSI EN 301 893 v.2.1.1 5GHz WLAN

Safety: IEC 62368-1:2014 (2nd Edition) Video, information and communication tech

RoHS EN 50581:2012 Technical documentation

FLIR Systems AB

Quality Assurance

Lea Dabiri

Quality Manager



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Email: info@tracerpower.com www.tracerpower.com

SAFETY DATA SHEET LITHIUM PHOSPHATE (LiFePO₄)

1. PRODUCT IDENTIFICATION

Product Name: LiFePO₄ Rechargeable Battery

Chemical System: LiFePO₄

2. COMPOSITION / INFORMATION ON INGREDIENTS

IMPORTANT NOTE: The battery cell should not be opened or exposed to heat as exposure to the following ingredients contained within could be harmful under some circumstances.

Weight %	Component	CAS No.	PEL	TLV
40	Lithium Iron Phosphate (LiFePO ₄)	15365-14-7	10.0 mg/m3 (as iron fume)	5.0 mg/m3
30	Graphite(C)	7440-44-0	2.5mg/m3(as dust)	2.0mg/m3(as dust)
10	Organic Electrolyte	N.A	None Established	None Established
5	Aluminium	7429-90-5	None Established	None Established
5	Copper	7440-50-8	None Established	None Established

Weight % listed is based on approximate percent of the average weight of the battery

3. HAZARDS IDENTIFICATION

For the battery cell, chemical materials are stored in a hermetically sealed Aluminum laminated case, designed to withstand temperatures and pressures encountered during normal use. As a result, during normal use, there is no physical danger of ignition or explosion and chemical danger of hazardous materials' leakage.

However, if exposed to a fire, added mechanical shocks, decomposed, added electric stress by miss-use, the gas release vent will be operated. The battery cell case will be breached and hazardous materials may be released.

Moreover, if heated strongly by the surrounding fire, hydrogen fluorite gas may be emitted.

Most important hazards and effects

Human health effects:

- Inhalation: The steam of the electrolyte has an anesthesia action and stimulates a respiratory tract.
- Skin contact: The steam of the electrolyte stimulates skin. The electrolyte skin contact causes a sore and stimulation on the skin
- Eye contact: The steam of the electrolyte stimulates eyes. The electrolyte eye contact causes a sore and stimulation on the eye. Especially, strong inflammation of the eyes is caused.

Environmental effects: Do not throw out it into the environment.

Specific hazards:

If the electrolyte contacts with water, it will generate detrimental hydrogen fluoride.

Since the leaked electrolyte is inflammable liquid, do not bring close to fire.

4. FIRST-AID MEASURES

Spilled internal cell materials

Inhalation: Make the victim blow his/her nose, gargle. Seek medical attention if necessary.

Skin contact: Remove contaminated clothes and shoes immediately. Wash extraneous matter or contact region with soap and plenty of water immediately.

Eye contact: Do not rub in eyes. Immediately flush eyes with water continuously for at least 15 minutes. Seek medical attention immediately.

Ingestion: Make the victim vomit. Seek medical attention.



UN38.3 Test Summary UN38.3 试验概要

UN38.3 Report No. UN38.3 报告编号	TCT200407B017		
Applicant's name 委托方名称	Deben Group Industries Ltd.	6	3)
Applicant's Address 委托方地址	Avocet House, Wilford Bridge Road, M	elton, Woodbridge,	IP12 1RB United Kingdon
Manufacturer's name 制造商名称			
Manufacturer's Address 制造商地址			
Manufacturer's Contact Telephone 制造商联系电话			
Name of Sample 样品名称	Rechargeable Li-ion Battery 可充电锂离子电池	Model 型号	BP2607
Trade Mark 商标		Shape 形状	Prismatic 棱柱形
Watt-hour 瓦时	89.6Wh	Sample Mass 样品重量	920.0g
Description 描述	Lithium ion Batteries 锂离子电池组	Date of Test Report 测试报告签 发日期	2020. 04. 21

Test Standard 检测标准:

UNITED NATIONS "Recommendations on the TRANSPORT OF DANGEROUS GOODS Manual of Tests and Criteria" Sixth revised edition Amendment 1 (ST/SG/AC.10/11/Rev.6/Amend.1)

联合国《关于危险货物运输的建议书 试验和标准手册》第六修订版修正 1 (ST/SG/AC.10/11/Rev.6/Amend.1)

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