



## Key Features

- Detect, locate, classify, and assess partial discharge (PD) faults from up to 200 m (656 ft) away
- Identify PD 30x smaller than ever before
- On-camera and software-based severity assessment of PD issues, and PD type classification provides best-in-class decision support
- One-handed operation with automatic tuning, 8x zoom, a 12 MP digital camera, and IP54 rating
- Made for enterprise scaling through the use of fleet management functionality so that managers can ensure the tools are being used and maintained properly

## Main Applications

- Monitor transmission & distribution conductors and components at long distances easily and reduce need for emergency repairs
- Inspect substation transformers to detect PD issues early, before they result in a dangerous and costly explosion
- Find PD issues in any piece of high-voltage equipment to reduce public complaints of radio interference and audible noise

## SPECIFICATIONS

FLIR Si2-PD	
Acoustic measurement	124 low-noise MEMS microphones, real-time sound visualization
Detection threshold	20 kHz: -15 dB SPL 35 kHz: 4 dB SPL 50 kHz: 10 dB SPL 80 kHz: 36 dB SPL 100 kHz: 51 dB SPL
Bandwidth	2–130 kHz
Directional resolution	From 1° up to 0.125°
Operating distance	From 0.3 m (1.0 ft) up to 200 m (656 ft)
Severity assessment	Automatic AI-based severity assessment including recommended actions onboard camera
Imaging & 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
Zoom	8x Digital zoom
Video image resolution	1280 x 720
User Interface	
Display	Size: 5 in. 1280 x 720 Resistive touch screen, TFT LCD, MIPI DSI
Integrated flashlight	LEDs, two modes: ON / OFF
Analysis and Reporting	
Online	FLIR Acoustic Camera Viewer (cloud service) <a href="https://acousticviewer.flir.com">https://acousticviewer.flir.com</a>
Offline	FLIR Thermal Studio (desktop software)

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, Acoustic USB Adapter Cable
Camera software update	Automatic Over The Air (OTA) wireless update or via USB connection
Still image format	.nlz and .jpg
Video recording & 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, comments, and GPS coordinates
Power Supply	
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 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
Environmental Data	
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

Specifications subject to change. For the most up-to-date specifications, please visit [flir.com](http://flir.com).

**SPECIFICATIONS, CONT.**

Radio	CFR47 FCC Part 15 Subpart C/E, ETSI EN 301 489-1/-17, ETSI EN 300 328, ETSI EN 301 893
Ingress protection	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	184 x 276 x 167 mm (7.2. x 10.8 x 6.5 in)
Camera weight	~ 1.2 kg
Battery size	85 x 77 mm (RRC2504)
Battery weight	~ 0.25 kg
Total weight	~ 1.45 kg (camera + battery)
<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	Camera Battery (2 ea) Battery charger Power cable (4 ea) Neck strap Hard transport case License card: FLIR Si-series Plugin for FLIR Thermal Studio, Perpetual license Printed documentation USB memory stick
Packaging, weight	6 kg (13 lb)
Packaging, size	365 x 190 x 490 mm (14.4 x 7.5 x 19.3 in)
EAN-13	7332558035726
UPC-12	845188033668
P/N	T912605

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For more information  
about FLIR Si2-PD™  
please scan or visit:



For technical or sales support, please visit:  
[www.flir.com/about/general-inquiries](http://www.flir.com/about/general-inquiries)

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Revised 10/03/25  
FLIR\_Si2-PD\_Datasheet\_en-US-LTR 25-0730-INS