





www.flir.com/Si2-PD



# **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	FLIR Si2-PD		
Acoustic measurement	124 low-noise MEMS microphones, real-time sound visualization		
Detection threshold	20 kHz: -7 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 Al-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 × 720		
User Interface	User Interface		
Display	Size: 5 in. 1280 × 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) https://acousticviewer.flir.com		
Offline	FLIR Thermal Studio (desktop software)		

For the most up-to-date specifications, please visit flir.com.

Communication and Data	a 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 & 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		
Camera power input	Nominal input voltage: 12 V DC Max input: 17 V DC , 3.3 A (limited)	
Battery	Li-lon rechargeable battery pack (RRC 2054):14.4 V DC, 3.45 Ah, 49.68 Wh Usage: Up to 2.5 h (depends on ambient conditions & usage, needs to be retested and confirmed with final product) 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	



# FLIR Si2-PD™

# Industrial Acoustic Imaging Camera for Partial Discharge Detection

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### 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: https://support.flir.com/resources/DoC	
Physical Data		
Camera size	288 × 182 × 159 mm (11 × 7 × 6 in)	
Camera weight	~ 1.2 kg	
Battery size	85 × 77 mm (RRC2504)	
Battery weight	~ 0.25 kg	
Total weight	~ 1.45 kg (camera + battery)	
Warranty and Service		
Warranty	http://www.flir.com/warranty/	

Shipping Information	
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	490 × 365 × 190 mm (19.3 × 14.4 × 7.5 in)
EAN-13	7332558032619
UPC-12	845188029739
P/N	T912305

 $Specifications\ subject\ to\ change.\ For\ the\ most\ up-to-date\ specifications,\ please\ visit\ flir.com.$ 

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

