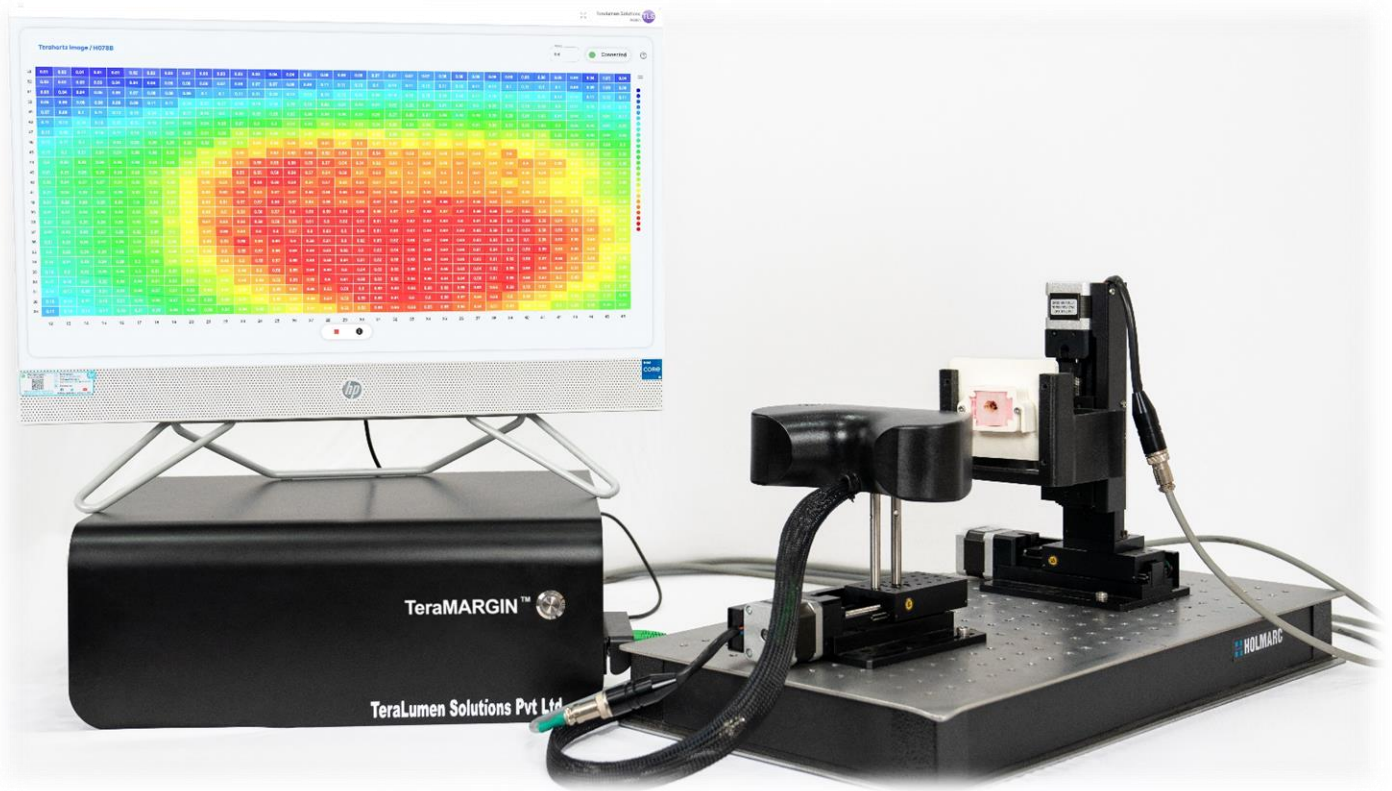


TERALUMEN



TeraMargin™

InSitu Cancer Margin Detection

Patented Terahertz Technology to detect Cancer Margin Detection during surgery. Guaranteed minimal reoccurrence of cancer.



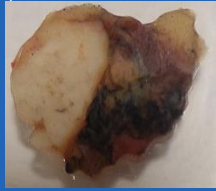
Non-Invasive Imaging

Reagents Free

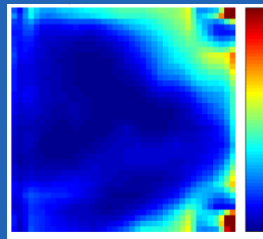
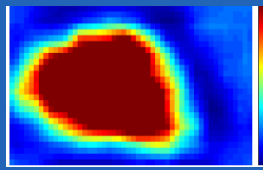
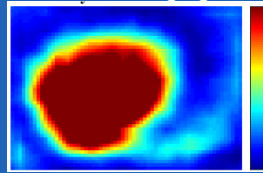
Real-Time Results

TeraLumen's terahertz technology represents a significant advancement in cancer surgery. It allows for real-time identification of malignant tissue during surgical resection, reducing positive margins (microscopic cancer at the resection edge) that necessitate re-excision surgery for complete tumor clearance. This technology offers benefits for both patients and healthcare systems.

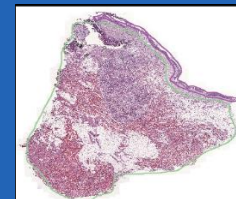
a) Visual Photo



b) Terahertz Imaging data



c) H&E Image



Benefits to Surgeons, Patients

- 5x to 6x Faster results
- Accuracy with 1mm precision
- Reduction in repeat surgery
- Intraoperative Device
- Reagent free method
- Minimal per surgery cost

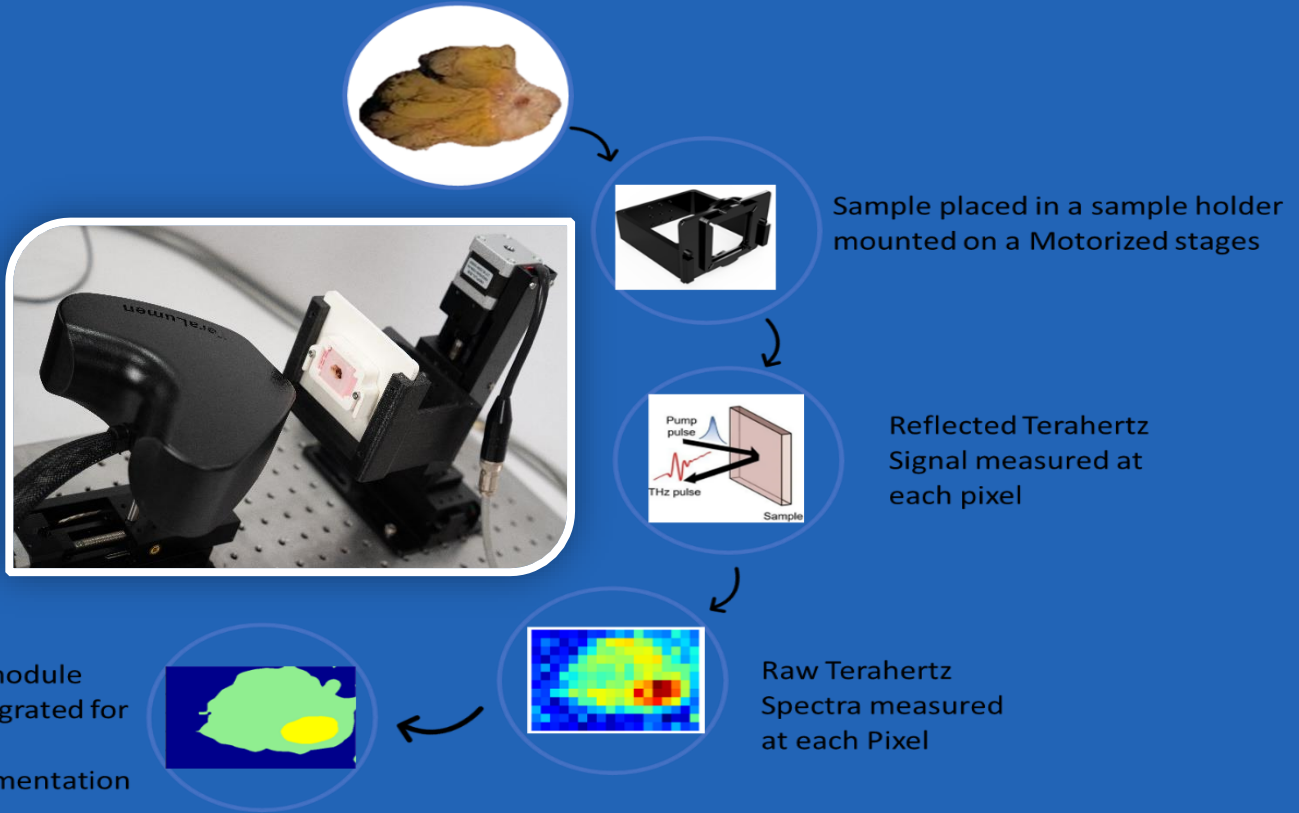
TeraMargin™ Key Features

- Machine Learning enabled
- Better Dynamic range
- Fully Automated
- Real-Time Analysis

TeraScopy Software Basic

- User Friendly GUI
- Cloud backup
- Generative AI Enabled

TeraMargin™ Flow



Dimensions and Weight

Controller (L x W x H): 40 cm x 30 cm x 15 mm

Controller Weight: 15 Kg

Sensor: < 500 Grams

Environment and Power Requirements

Operating Voltage: 230 VAC, 10A

Power Consumption: < 250 W

Ambient Atmosphere: <25 °C, 80% RH

Operating Temperature: 15 - 35 °C

Power Consumption: <200W

Cooling Requirements: No water cooling required

Optional:

- Custom tissue holder
- Terascopy Advanced analysis software





INDIA'S FIRST TERAHERTZ COMPANY. TeraLumen Solutions, with its roots firmly planted in Indian soil, is a beacon of global excellence as a provider of medical-grade Terahertz diagnostic products, industrial-grade Terahertz testing solutions, and research-grade THz systems for a diverse array of markets.

Our mission is to design, develop, and deliver state-of-the-art Terahertz Imaging products and solutions that meet the exacting demands of Non-invasive Inspection across sectors such as Bio-Medical, Aerospace, Automotive, Defense, Energy, Pharma, Semiconductor, and Electronics.

-----MAKING TERAHERTZ ACCESSIBLE AND AFFORDABLE-----

Teralumen Solutions Pvt Ltd, 20, Golden Jubilee Biotech Park for Women, Siruseri SIPCOT,
2nd Cross Street, 4th Main Road, OMR, Navalur, Chennai – 603103, Tamil Nadu, INDIA

✉ admin@teralumensolutions.com | 📞 +91 70222 75333

🌐 www.teralumensolutions.com