

# **Europe Medical Terahertz Technology Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Terahertz Imaging and Terahertz Spectroscopy) and Application (Oncology, Dentistry, Dermatology, Tomography, Biochemistry, and Others)**

<https://marketpublishers.com/r/EC55A0537E39EN.html>

Date: February 2023

Pages: 122

Price: US\$ 3,000.00 (Single User License)

ID: EC55A0537E39EN

## **Abstracts**

The Europe medical terahertz technology market is expected to grow from US\$ 39.90 million in 2022 to US\$ 101.84 million by 2028. It is estimated to grow at a CAGR of 16.9% from 2022 to 2028.

**Rising Demand for Non-Invasive Technique for Early Detection of Cancer is Driving the Europe Medical Terahertz Technology Market**

THz pulse imaging, THz time-domain spectroscopy (TDS-THz), continuous-wave terahertz (CW-THz), and other non-invasive terahertz generation/detection approaches are among the most promising for detecting cancer. Terahertz imaging produces a stronger contrast image of the diseased tissue because diseased tissue has a higher water content than healthy tissue, which may allow for a more precise definition of early-stage malignancies' exact margin (border). In real-time, terahertz imaging can help a doctor avoid removing healthy tissue around a tumor as a safety margin during breast cancer surgery. They can ensure that all sick tissue is removed, avoiding the need for multiple operations and lowering the patient's risk. THz technologies also demonstrated their potential uses in the biomedical sciences, including both potential innovative diagnostic procedures for skin tumors and potential novel treatments for skin malignancies and other skin conditions. Overall, the burden of cancer incidence and death is increasing, reflecting population aging, is the key cancer risk factors, are the factors driving the market growth

## Europe Medical Terahertz Technology Market Overview

Terahertz (THz) is nonionizing radiation that makes it safe for living tissues. It can be used safely to pick up several types of explosives, compounds used in pharmaceutical ingredients, and illegal narcotics. Cardiovascular disease is the major cause of death in the European Union. According to Eurostat, in 2019, Germany conducted 45,400 heart bypass surgery. As per Cancer Atlas, in 2018, 3.9 million new cancer cases and 1.9 million cancer-related deaths were reported in Europe. Furthermore, breast cancer is the leading type of cancer, which contributes to 523,000 new cases, or 13% of all cancer cases. Terahertz technology is applied in the field of biology and medicine, such as medical imaging, cancer diagnosis, and material spectroscopy. Thus, the growing number of diseases are expected to boost the medical terahertz technology market growth. In 2019, an EU-funded initiative, the THEIA project using THz technology, has laid the foundation for application in biology, medicine, material science, and security using the unique properties of THz waves. It will be used to develop novel scanners and imaging systems. The THz spectrum possesses unique fingerprints for compounds such as polymers, proteins, amino acids, drugs, and explosives. Therefore, this technology can be used in security scanners. It will help recognize drugs, explosives, and other illicit substances. Thus, growing research in medical THz technology will fuel the growth of the Europe medical terahertz technology market .

Europe Medical Terahertz Technology Market Revenue and Forecast to 2028 (US\$ Million)

Europe Medical Terahertz Technology Market Segmentation

The Europe medical terahertz technology market is segmented into type, application, and country.

Based on type, the Europe medical terahertz technology market is segmented into terahertz imaging and terahertz spectroscopy. The terahertz imaging segment held the largest share of the Europe medical terahertz technology market in 2022.

Based on application, the Europe medical terahertz technology market is segmented into oncology, dentistry, dermatology, tomography, biochemistry, and others. In 2022, the oncology segment is likely to hold the largest share of the Europe medical terahertz technology market.

Based on country, the Europe medical terahertz technology market is segmented into

France, Germany, Italy, Spain, the UK, Russia, and the Rest of Europe. Germany dominated the market share in 2022.

Acal BFi Limited; Advantest Corporation; H?BNER GmbH & Co. KG; Luna Innovations Inc.; Menlo Systems GmbH; Microtech Instrument Inc.; Terasense Group Inc.; Teraview limited; and Toptica Photonics AG are the leading companies operating in the Europe medical terahertz technology market.

## Contents

### **1. INTRODUCTION**

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation
  - 1.3.1 Europe Medical Terahertz Technology Market – By Type
  - 1.3.2 Europe Medical Terahertz Technology Market – By Application
  - 1.3.3 Europe Medical Terahertz Technology Market – By Country

### **2. EUROPE MEDICAL TERAHERTZ TECHNOLOGY MARKET – KEY TAKEAWAYS**

### **3. RESEARCH METHODOLOGY**

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

### **4. EUROPE MEDICAL TERAHERTZ TECHNOLOGY MARKET – MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Europe PEST Analysis
- 4.3 Experts Opinion

### **5. EUROPE MEDICAL TERAHERTZ TECHNOLOGY MARKET – KEY MARKET DYNAMICS**

- 5.1 Key Drivers
  - 5.1.1 Rising Demand for Non-Invasive Technique for Early Detection of Cancer
  - 5.1.2 Increasing Use of Terahertz Technology in Dental Care
- 5.2 Market Restraints
  - 5.2.1 Challenges Related to Imaging Resolution
- 5.3 Market Opportunities
  - 5.3.1 Rapid Development of Coherent THz Sources
- 5.4 Future Trends
  - 5.4.1 Recent Advances in Terahertz Technology for Biomedical Applications

## 5.5 Impact Analysis

## **6. MEDICAL TERAHERTZ TECHNOLOGY MARKET – EUROPE ANALYSIS**

### 6.1 Europe Medical Terahertz Technology Market Revenue Forecast and Analysis

## **7. MEDICAL TERAHERTZ TECHNOLOGY MARKET ANALYSIS AND FORECAST TO 2028 – TYPE**

### 7.1 Overview

### 7.2 Europe Medical Terahertz Technology Market, by Type, 2022 & 2028 (%)

### 7.3 Terahertz Imaging

#### 7.3.1 Overview

#### 7.3.2 Terahertz Imaging Market Revenue and Forecast to 2028 (USD Thousand)

### 7.4 Terahertz Spectroscopy

#### 7.4.1 Overview

#### 7.4.2 Terahertz Spectroscopy Market Revenue and Forecast to 2028 (USD Thousand)

## **8. MEDICAL TERAHERTZ TECHNOLOGY MARKET ANALYSIS AND FORECAST TO 2028 – APPLICATION**

### 8.1 Overview

### 8.2 Europe Medical Terahertz Technology Market, by Application, 2022 & 2028 (%)

### 8.3 Oncology

#### 8.3.1 Overview

#### 8.3.2 Oncology Market Revenue and Forecast to 2028 (USD Thousand)

### 8.4 Dentistry

#### 8.4.1 Overview

#### 8.4.2 Dentistry Market Revenue and Forecast to 2028 (USD Thousand)

### 8.5 Dermatology

#### 8.5.1 Overview

#### 8.5.2 Dermatology Market Revenue and Forecast to 2028 (USD Thousand)

### 8.6 Tomography

#### 8.6.1 Overview

#### 8.6.2 Tomography Market Revenue and Forecast to 2028 (USD Thousand)

### 8.7 Biochemistry

#### 8.7.1 Overview

#### 8.7.2 Biochemistry Market Revenue and Forecast to 2028 (USD Thousand)

### 8.8 Others

8.8.1 Overview

8.8.2 Others Market Revenue and Forecast to 2028 (USD Thousand)

## **9. EUROPE MEDICAL TERAHERTZ TECHNOLOGY MARKET ANALYSIS AND FORECASTS TO 2028 – COUNTRY ANALYSIS**

9.1 Overview

9.1.1 Europe: Medical Terahertz Technology Market, by Country, 2022 & 2028 (%)

9.1.1.1 Germany: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

9.1.1.1.1 Overview

9.1.1.1.2 Germany: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

9.1.1.1.3 Germany: Medical Terahertz Technology Market, by Type, 2019–2028 (US\$ Thousand)

9.1.1.1.3.1 Germany: Medical Terahertz Technology Market, by Terahertz Imaging, 2019–2028 (US\$ Thousand)

9.1.1.1.3.2 Germany: Medical Terahertz Technology Market, by Terahertz Spectroscopy, 2019–2028 (US\$ Thousand)

9.1.1.1.4 Germany: Medical Terahertz Technology Market, by Application, 2019–2028 (US\$ Thousand)

9.1.1.2 France: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

9.1.1.2.1 Overview

9.1.1.2.2 France: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

9.1.1.2.3 France: Medical Terahertz Technology Market, by Type, 2019–2028 (US\$ Thousand)

9.1.1.2.3.1 France: Medical Terahertz Technology Market, by Terahertz Imaging, 2019–2028 (US\$ Thousand)

9.1.1.2.3.2 France: Medical Terahertz Technology Market, by Terahertz Spectroscopy, 2019–2028 (US\$ Thousand)

9.1.1.2.4 France: Medical Terahertz Technology Market, by Application, 2019–2028 (US\$ Thousand)

9.1.1.3 UK: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

9.1.1.3.1 Overview

9.1.1.3.2 UK: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

- 9.1.1.3.3 UK: Medical Terahertz Technology Market, by Type, 2019–2028 (US\$ Thousand)
  - 9.1.1.3.3.1 UK: Medical Terahertz Technology Market, by Terahertz Imaging, 2019–2028 (US\$ Thousand)
  - 9.1.1.3.3.2 UK: Medical Terahertz Technology Market, by Terahertz Spectroscopy, 2019–2028 (US\$ Thousand)
  - 9.1.1.3.4 UK: Medical Terahertz Technology Market, by Application, 2019–2028 (US\$ Thousand)
- 9.1.1.4 Italy: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
  - 9.1.1.4.1 Overview
  - 9.1.1.4.2 Italy: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
  - 9.1.1.4.3 Italy: Medical Terahertz Technology Market, by Type, 2019–2028 (US\$ Thousand)
    - 9.1.1.4.3.1 Italy: Medical Terahertz Technology Market, by Terahertz Imaging, 2019–2028 (US\$ Thousand)
    - 9.1.1.4.3.2 Italy: Medical Terahertz Technology Market, by Terahertz Spectroscopy, 2019–2028 (US\$ Thousand)
  - 9.1.1.4.4 Italy: Medical Terahertz Technology Market, by Application, 2019–2028 (US\$ Thousand)
- 9.1.1.5 Spain: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
  - 9.1.1.5.1 Overview
  - 9.1.1.5.2 Spain: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
  - 9.1.1.5.3 Spain: Medical Terahertz Technology Market, by Type, 2019–2028 (US\$ Thousand)
    - 9.1.1.5.3.1 Spain: Medical Terahertz Technology Market, by Terahertz Imaging, 2019–2028 (US\$ Thousand)
    - 9.1.1.5.3.2 Spain: Medical Terahertz Technology Market, by Terahertz Spectroscopy, 2019–2028 (US\$ Thousand)
  - 9.1.1.5.4 Spain: Medical Terahertz Technology Market, by Application, 2019–2028 (US\$ Thousand)
- 9.1.1.6 Rest of Europe: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
  - 9.1.1.6.1 Overview
  - 9.1.1.6.2 Rest of Europe: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

9.1.1.6.3 Rest of Europe: Medical Terahertz Technology Market, by Type, 2019–2028 (US\$ Thousand)

9.1.1.6.3.1 Rest of Europe: Medical Terahertz Technology Market, by Terahertz Imaging, 2019–2028 (US\$ Thousand)

9.1.1.6.3.2 Rest of Europe: Medical Terahertz Technology Market, by Terahertz Spectroscopy, 2019–2028 (US\$ Thousand)

9.1.1.6.4 Rest of Europe: Medical Terahertz Technology Market, by Application, 2019–2028 (US\$ Thousand)

## **10. MEDICAL TERAHERTZ TECHNOLOGY MARKET–INDUSTRY LANDSCAPE**

10.1 Overview

10.2 Growth Strategies in The Medical Terahertz Technology Market, 2018-2022

10.3 Organic Developments

10.3.1 Overview

10.3.2 Organic Growth Strategies in The Medical Terahertz Technology Market, 2018-2022

10.4 Inorganic Developments

10.4.1 Overview

10.4.2 Inorganic Growth Strategies in Terahertz Technology Market, 2018-2022

## **11. MEDICAL TERAHERTZ TECHNOLOGY MARKET–KEY COMPANY PROFILES**

11.1 Acal BFi Limited

11.1.1 Key Facts

11.1.2 Business Description

11.1.3 Products and Services

11.1.4 Financial Overview

11.1.5 SWOT Analysis

11.1.6 Key Developments

11.2 Advantest Corporation

11.2.1 Key Facts

11.2.2 Business Description

11.2.3 Products and Services

11.2.4 Financial Overview

11.2.5 SWOT Analysis

11.2.6 Key Developments

11.3 Teraview limited

11.3.1 Key Facts



- 11.3.2 Business Description
- 11.3.3 Products and Services
- 11.3.4 Financial Overview
- 11.3.5 SWOT Analysis
- 11.3.6 Key Developments
- 11.4 Toptica Photonics AG
- 11.4.1 Key Facts
- 11.4.2 Business Description
- 11.4.3 Products and Services
- 11.4.4 Financial Overview
- 11.4.5 SWOT Analysis
- 11.4.6 Key Developments
- 11.5 Terasense Group Inc.
- 11.5.1 Key Facts
- 11.5.2 Business Description
- 11.5.3 Products and Services
- 11.5.4 Financial Overview
- 11.5.5 SWOT Analysis
- 11.5.6 Key Developments
- 11.6 Microtech Instrument Inc.
- 11.6.1 Key Facts
- 11.6.2 Business Description
- 11.6.3 Products and Services
- 11.6.4 Financial Overview
- 11.6.5 SWOT Analysis
- 11.6.6 Key Developments
- 11.7 Menlo Systems GmbH
- 11.7.1 Key Facts
- 11.7.2 Business Description
- 11.7.3 Products and Services
- 11.7.4 Financial Overview
- 11.7.5 SWOT Analysis
- 11.7.6 Key Developments
- 11.8 H?BNER GmbH & Co. KG
- 11.8.1 Key Facts
- 11.8.2 Business Description
- 11.8.3 Products and Services
- 11.8.4 Financial Overview
- 11.8.5 SWOT Analysis

- 11.8.6 Key Developments
- 11.9 Luna Innovations Inc.
  - 11.9.1 Key Facts
  - 11.9.2 Business Description
  - 11.9.3 Products and Services
  - 11.9.4 Financial Overview
  - 11.9.5 SWOT Analysis
  - 11.9.6 Key Developments

## **12. APPENDIX**

- 12.1 About The Insight Partners
- 12.2 Glossary of Terms

## List Of Tables

### LIST OF TABLES

Table 1. Germany Medical Terahertz Technology Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 2. Germany Medical Terahertz Technology Market, by Terahertz Imaging – Revenue and Forecast to 2028 (US\$ Thousand)

Table 3. Germany Medical Terahertz Technology Market, by Terahertz Spectroscopy – Revenue and Forecast to 2028 (US\$ Thousand)

Table 4. Germany Medical Terahertz Technology Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 5. France Medical Terahertz Technology Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 6. France Medical Terahertz Technology Market, by Terahertz Imaging – Revenue and Forecast to 2028 (US\$ Thousand)

Table 7. France Medical Terahertz Technology Market, by Terahertz Spectroscopy – Revenue and Forecast to 2028 (US\$ Thousand)

Table 8. France Medical Terahertz Technology Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 9. UK Medical Terahertz Technology Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 10. UK Medical Terahertz Technology Market, by Terahertz Imaging – Revenue and Forecast to 2028 (US\$ Thousand)

Table 11. UK Medical Terahertz Technology Market, by Terahertz Spectroscopy – Revenue and Forecast to 2028 (US\$ Thousand)

Table 12. UK Medical Terahertz Technology Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 13. Italy Medical Terahertz Technology Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 14. Italy Medical Terahertz Technology Market, by Terahertz Imaging – Revenue and Forecast to 2028 (US\$ Thousand)

Table 15. Italy Medical Terahertz Technology Market, by Terahertz Spectroscopy – Revenue and Forecast to 2028 (US\$ Thousand)

Table 16. Italy Medical Terahertz Technology Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 17. Spain Medical Terahertz Technology Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 18. Spain Medical Terahertz Technology Market, by Terahertz Imaging –

Revenue and Forecast to 2028 (US\$ Thousand)

Table 19. Spain Medical Terahertz Technology Market, by Terahertz Spectroscopy – Revenue and Forecast to 2028 (US\$ Thousand)

Table 20. Spain Medical Terahertz Technology Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 21. Rest of Europe Medical Terahertz Technology Market, by Type – Revenue and Forecast to 2028 (US\$ Thousand)

Table 22. Rest of Europe Medical Terahertz Technology Market, by Terahertz Imaging – Revenue and Forecast to 2028 (US\$ Thousand)

Table 23. Rest of Europe Medical Terahertz Technology Market, by Terahertz Spectroscopy – Revenue and Forecast to 2028 (US\$ Thousand)

Table 24. Rest of Europe Medical Terahertz Technology Market, by Application – Revenue and Forecast to 2028 (US\$ Thousand)

Table 25. Recent Organic Growth Strategies in The Medical Terahertz Technology Market

Table 26. Recent Inorganic Growth Strategies in The Medical Terahertz Technology Market

Table 27. Glossary of Terms, Europe Medical Terahertz Technology Market

## List Of Figures

### LIST OF FIGURES

- Figure 1. Europe Medical Terahertz Technology Market Segmentation
- Figure 2. Europe Medical Terahertz Technology Segmentation, by Country
- Figure 3. Europe Medical Terahertz Technology Market Overview
- Figure 4. Terahertz Imaging Segment Held Largest Share of Product Segment in Europe Medical Terahertz Technology Market
- Figure 5. France is Expected to Show Remarkable Growth During the Forecast Period
- Figure 6. Europe: PEST Analysis
- Figure 7. Experts Opinion
- Figure 8. Europe Medical Terahertz Technology Market Impact Analysis of Drivers and Restraints
- Figure 9. Europe Medical Terahertz Technology Market Revenue and Forecast to 2028 (US\$ Thousand)
- Figure 10. Europe Medical Terahertz Technology Market, by Type, 2022 & 2028 (%)
- Figure 11. Terahertz Imaging Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 12. Terahertz Spectroscopy Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 13. Europe Medical Terahertz Technology Market, by Application, 2022 & 2028 (%)
- Figure 14. Oncology Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 15. Dentistry Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 16. Dermatology Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 17. Tomography Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 18. Biochemistry Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 19. Others Market Revenue and Forecast to 2028 (USD Thousand)
- Figure 20. Europe: Medical Terahertz Technology Market, by Key Country – Revenue (2022) (US\$ Thousand)
- Figure 21. Europe: Medical Terahertz Technology Market, by Country, 2022 & 2028 (%)
- Figure 22. Germany: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
- Figure 23. France: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
- Figure 24. UK: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)
- Figure 25. Italy: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

Figure 26. Spain: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

Figure 27. Rest of Europe: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (US\$ Thousand)

Figure 28. Growth Strategies in The Medical Terahertz Technology Market, 2018-2022

## I would like to order

Product name: Europe Medical Terahertz Technology Market Forecast to 2028 – COVID-19 Impact and Regional Analysis – by Type (Terahertz Imaging and Terahertz Spectroscopy) and Application (Oncology, Dentistry, Dermatology, Tomography, Biochemistry, and Others)

Product link: <https://marketpublishers.com/r/EC55A0537E39EN.html>

Price: US\$ 3,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/EC55A0537E39EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970