

South America Terahertz Technology Market Forecast to 2030 – COVID-19 Impact and Regional Analysis – by Component (Terahertz Sources and Terahertz Detectors), Type (Terahertz Imaging Systems, Terahertz Spectroscopy Systems, and Terahertz Communication System), and Application (Medical & Healthcare, Defense & Security, Food & Agriculture, Industrial, Semiconductor, and Others)

<https://marketpublishers.com/r/SD4EEE5CF6C1EN.html>

Date: August 2023

Pages: 96

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

ID: SD4EEE5CF6C1EN

Abstracts

The South America terahertz technology market is expected to grow from US\$ 16.10 million in 2023 to US\$ 68.96 million by 2030; it is estimated to grow at a CAGR of 23.1% from 2023 to 2030.

Processing Applications of Terahertz Technology in the Food Industry

The use of ionizing radiation (X-rays) is critical for quality control and nondestructive testing because of its detrimental effect on biological agents. It is here that Terahertz imaging technology is beneficial, and there are many examples of the valuable application of THz imaging in the food industry. Instead of using X-ray machines, food manufacturers and packagers can use terahertz food scanners to check, for example, whether a pick-and-place robotic arm has placed all candy bars inside the carton. The THz imagers have no problem seeing through cardboard or PE packaging — individual chocolate bars can be wrapped in any material, even metal-containing foil that is impervious to the THz rays. Metal foil in the THz images would create even better contrast. Also, reports of insects and other foreign objects found in food are a severe cause of concern to consumers, food producers, as well as retailers alike. Unwrapping a

chocolate bar could reveal an unpleasant surprise, like an insect, pieces of metal or glass, or clots of dirt. This can kill not only the appetite of the consumer but also cause a broken tooth or poisoning. On top of that, a producer or retailer in some countries may end up being sued, potentially leading to fines and lawsuits worth millions of dollars. The market players have made some tests specifically for the food industry to demonstrate the ability to identify foreign objects (e.g., insects, pieces of plastics, metal, stones, or soil) inside of some food products. For example, TeraSense Group's THz imaging systems can easily detect a common housefly via multiple polyethylene bags, even if the total thickness of such PET coating exceeds 20 mm. Also, TeraSense imaging systems reveal carcinogenic mycotoxin fungus contaminating peanuts, corn, hazelnuts, and other grain crops and oil plants. For instance, industrial customers can detect any signs of infections such as *Aspergillus flavus* and *Aspergillus parasiticus*, which exude the hazardous carcinogen Aflatoxins B1, with the aid of our THz imagers. The increased use of terahertz technology in the food industry is thus one of the significant opportunities for the growth of terahertz technology during the forecast period.

South America Terahertz Technology Market Overview

The South America market for terahertz technology is further segmented into Brazil, Argentina, and the Rest of SAM. The region is characterized by a mixed growth scenario, with some countries having complex macroeconomic and political environments. Despite many challenges, the positive initiatives governments take are helping most of these countries' economies grow at a reasonable pace during the forecast period. Developing economies such as Brazil, Argentina, Chile, and Peru are investing substantially in infrastructure and industrial development. Companies across South America are adopting digitization, process automation, and advanced technologies to increase operational efficiency and performance. The increasing crime rate is a major contributing factor to South America's market growth for terahertz technology.

South America Terahertz Technology Market Revenue and Forecast to 2030 (US\$ Million)

South America Terahertz Technology Market Segmentation

The South America terahertz technology market is segmented based on component, type, application, and country. Based on component, the South America terahertz technology market is bifurcated into terahertz sources and terahertz detectors. The

terahertz detectors segment held a larger market share in 2023.

Based on type, the South America terahertz technology market is segmented into terahertz imaging systems, terahertz spectroscopy systems, and terahertz communication system. The terahertz imaging systems segment held the largest market share in 2023.

Based on application, the South America terahertz technology market is segmented into medical & healthcare, defense & security, food & agriculture, industrial, semiconductor, and others. The medical & healthcare segment held the largest market share in 2023.

Based on country, the South America terahertz technology market is segmented into Brazil, Argentina, and the Rest of South America. Brazil dominated the South America terahertz technology market share in 2023.

Advantest Corporation; H?BNER GmbH & Co. KG; NTT Electric Co.; and Terasense Group Inc., are the leading companies operating in the South America terahertz technology market.

Contents

1. INTRODUCTION

- 1.1 Study Scope
- 1.2 The Insight Partners Research Report Guidance
- 1.3 Market Segmentation

2. KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. SOUTH AMERICA TERAHERTZ TECHNOLOGY MARKET LANDSCAPE

- 4.1 Market Overview
- 4.2 PEST Analysis
 - 4.2.1 South America – PEST Analysis
- 4.3 Ecosystem Analysis
- 4.4 Expert Opinion
- 4.5 Premium Insights

5. SOUTH AMERICA TERAHERTZ TECHNOLOGY MARKET – KEY MARKET DYNAMICS

- 5.1 Market Drivers
 - 5.1.1 Rising Demand of Terahertz Technology from the Defense, Homeland Security, and Medical Sectors
 - 5.1.2 Growing use of terahertz system in semiconductor industry
- 5.2 Market Restraints
 - 5.2.1 Lack of Awareness and Unavailability of Skilled Professionals
- 5.3 Market Opportunities
 - 5.3.1 Processing Applications of Terahertz Technology in the Food Industry
 - 5.3.2 Expansion of the 6G technology
- 5.4 Future Trends
 - 5.4.1 Use of Terahertz Technology for Satellite Communication

5.5 Impact Analysis of Drivers and Restraints

6. TERAHERTZ TECHNOLOGY MARKET – SOUTH AMERICA ANALYSIS

6.1 Terahertz Technology Market – South America Revenue and Forecast to 2030 (US\$ Million)

7. SOUTH AMERICA TERAHERTZ TECHNOLOGY MARKET ANALYSIS – BY COMPONENT

7.1 Overview

7.2 Terahertz Technology Market, By Component (2022 and 2030)

7.3 Terahertz Sources

7.3.1 Overview

7.3.2 Terahertz Sources: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

7.4 Terahertz Detectors

7.4.1 Overview

7.4.2 Terahertz Detectors: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

8. SOUTH AMERICA TERAHERTZ TECHNOLOGY MARKET – BY TYPE

8.1 Overview

8.2 Terahertz Technology Market, by Type (2022 and 2030)

8.3 Terahertz Imaging Systems

8.3.1 Overview

8.3.2 Terahertz Imaging Systems: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

8.4 Terahertz Spectroscopy Systems

8.4.1 Overview

8.4.2 Terahertz Spectroscopy Systems: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

8.5 Terahertz Communication Systems

8.5.1 Overview

8.5.2 Terahertz Communication Systems: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

9. SOUTH AMERICA TERAHERTZ TECHNOLOGY MARKET – BY APPLICATION

9.1 Overview

9.2 Terahertz Technology Market, by Application (2022 and 2030)

9.3 Medical and Healthcare

9.3.1 Overview

9.3.2 Medical and Healthcare: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

9.4 Defense and Security

9.4.1 Overview

9.4.2 Defense and Security: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

9.5 Food and Agriculture

9.5.1 Overview

9.5.2 Food and Agriculture: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

9.6 Industrial

9.6.1 Overview

9.6.2 Industrial: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

9.7 Semiconductor

9.7.1 Overview

9.7.2 Semiconductor: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

9.8 Other Applications

9.8.1 Overview

9.8.2 Other Applications: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

10. SOUTH AMERICA TERAHERTZ TECHNOLOGY MARKET – BY COUNTRY ANALYSIS

10.1 South America: Terahertz Technology Market

10.1.1 South America: Terahertz Technology Market- by Key Country

10.1.1.1 Brazil: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

10.1.1.1.1 Brazil: Terahertz Technology Market- by Component

10.1.1.1.2 Brazil: Terahertz Technology Market- By Type

10.1.1.1.3 Brazil: Terahertz Technology Market- By Application

10.1.1.2 Argentina: Terahertz Technology Market – Revenue and Forecast to 2030

(US\$ Million)

10.1.1.2.1 Argentina: Terahertz Technology Market- by Component

10.1.1.2.2 Argentina: Terahertz Technology Market- By Type

10.1.1.2.3 Argentina: Terahertz Technology Market- By Application

10.1.1.3 Rest of SAM: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

10.1.1.3.1 Rest of South America: Terahertz Technology Market- by Component

10.1.1.3.2 Rest of South America: Terahertz Technology Market- By Type

10.1.1.3.3 Rest of South America: Terahertz Technology Market- By Application

11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.3 Product Development

11.4 Mergers & Acquisitions

12. COMPANY PROFILES

12.1 Terasense Group Inc

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Advantest Corp

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

12.2.4 Financial Overview

12.2.5 SWOT Analysis

12.2.6 Key Developments

12.3 H?BNER GmbH & Co KG

12.3.1 Key Facts

12.3.2 Business Description

12.3.3 Products and Services

12.3.4 Financial Overview

12.3.5 SWOT Analysis

- 12.3.6 Key Developments
- 12.4 NTT Electronics Corp
 - 12.4.1 Key Facts
 - 12.4.2 Business Description
 - 12.4.3 Products and Services
 - 12.4.4 Financial Overview
 - 12.4.5 SWOT Analysis
 - 12.4.6 Key Developments

13. APPENDIX

- 13.1 About The Insight Partners
- 13.2 Word Index

List Of Tables

LIST OF TABLES

Table 1. South America Terahertz Technology Market – Revenue, and Forecast to 2030 (US\$ Million)

Table 2. South America: Terahertz Technology Market- By Key Country – Revenue and Forecast to 2030 (US\$ Million)

Table 3. Brazil: Terahertz Technology Market- by Component –Revenue and Forecast to 2030 (US\$ Million)

Table 4. Brazil: Terahertz Technology Market- By Type –Revenue and Forecast to 2030 (US\$ Million)

Table 5. Brazil: Terahertz Technology Market- By Application –Revenue and Forecast to 2030 (US\$ Million)

Table 6. Argentina: Terahertz Technology Market- by Component –Revenue and Forecast to 2030 (US\$ Million)

Table 7. Argentina: Terahertz Technology Market- By Type –Revenue and Forecast to 2030 (US\$ Million)

Table 8. Argentina: Terahertz Technology Market- By Application –Revenue and Forecast to 2030 (US\$ Million)

Table 9. Rest of South America: Terahertz Technology Market- by Component–Revenue and Forecast to 2030 (US\$ Million)

Table 10. Rest of South America: Terahertz Technology Market- By Type –Revenue and Forecast to 2030 (US\$ Million)

Table 11. Rest of South America: Terahertz Technology Market- By Application –Revenue and Forecast to 2030 (US\$ Million)

Table 12. List of Abbreviation

List Of Figures

LIST OF FIGURES

- Figure 1. South America Terahertz Technology Market Segmentation
- Figure 2. South America Terahertz Technology Market Segmentation – By Country
- Figure 3. South America Terahertz Technology Market Overview
- Figure 4. Terahertz Detectors Segment Held the Largest Market Share in 2022
- Figure 5. Terahertz Imaging Systems Segment Held the Largest Market Share in 2022
- Figure 6. Medical and Healthcare Segment Held the Largest Market Share in 2022
- Figure 7. Brazil was the Largest Revenue Contributor in 2022
- Figure 8. South America – PEST Analysis
- Figure 9. South America Terahertz Technology Market– Ecosystem Analysis
- Figure 10. South America Expert Opinion
- Figure 11. South America Terahertz Technology Market Impact Analysis of Drivers and Restraints
- Figure 12. South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 13. South America Terahertz Technology Market Revenue Share, by Component (2022 and 2030)
- Figure 14. Terahertz Sources: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 15. Terahertz Detectors: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 16. South America Terahertz Technology Market Revenue Share, by Type (2022 and 2030)
- Figure 17. Terahertz Imaging Systems: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 18. Terahertz Spectroscopy Systems: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 19. Terahertz Communication Systems: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 20. South America Terahertz Technology Market Revenue Share, by Application (2022 and 2030)
- Figure 21. Medical and Healthcare: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 22. Defense and Security: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)
- Figure 23. Food and Agriculture: South America Terahertz Technology Market –

Revenue and Forecast to 2030 (US\$ Million)

Figure 24. Industrial: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 25. Semiconductor: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 26. Other Applications: South America Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 27. South America: Terahertz Technology Market, By Key Country – Revenue (2022) (US\$ Million)

Figure 28. South America: Terahertz Technology Market Revenue Share, By Key Country (2022 and 2030)

Figure 29. Brazil: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 30. Argentina: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

Figure 31. Rest of SAM: Terahertz Technology Market – Revenue and Forecast to 2030 (US\$ Million)

I would like to order

Product name: South America Terahertz Technology Market Forecast to 2030 – COVID-19 Impact and Regional Analysis – by Component (Terahertz Sources and Terahertz Detectors), Type (Terahertz Imaging Systems, Terahertz Spectroscopy Systems, and Terahertz Communication System), and Application (Medical & Healthcare, Defense & Security, Food & Agriculture, Industrial, Semiconductor, and Others)

Product link: <https://marketpublishers.com/r/SD4EEE5CF6C1EN.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

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/SD4EEE5CF6C1EN.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