

Asia Pacific 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)

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Abstracts

The Asia Pacific medical terahertz technology market is expected to grow from US\$ 28.93 million in 2022 to US\$ 76.77 million by 2028. It is estimated to grow at a CAGR of 17.7% from 2022 to 2028.

Rapid Development of Coherent THz Sources is Driving the Asia Pacific Medical Terahertz Technology Market

Due to recent technological advancements, Terahertz (THz) radiation can currently be produced and coherently detected. As a result, the advantages of this method for THz spectroscopy and imaging in biomedicine have been quickly appreciated. The last ten years have seen a sharp increase in the applications of THz pulsed imaging (TPI). The terahertz (THz) free-electron laser (FEL) is a very appealing THz source of coherent radiation due to its high power and adaptable picoseconds-pulse time structure. According to recent research and development, free-electron laser (FEL) THz radiation is a very attractive THz source of coherent radiation. Applications may be made in various fields, including imaging, material science, biology and medicine, communication, and diagnostics. Hard collaboration between various scientific fields resulted from the growing demand for biomedical diagnosis techniques that can offer morphological, chemical, or functional information for early, non-invasive, label-free detection. As a result of technology advancements, numerous new contemporary diagnostics systems are being researched and verified as complementary biomedical approaches to the traditional ones. These systems encompass a range of scales, from

macromolecules to tissues and organs. Therefore, such development presents various opportunities for the future growth of medical terahertz technology market players.

Asia Pacific Medical Terahertz Technology Market Overview

The Asia Pacific medical terahertz technology market is segmented into Australia, China, Japan, India, South Korea, and the Rest of Asia Pacific. The commercialization of terahertz technology applications in Asia Pacific's developing economies is in its introductory stages. However, countries including China, India, and Japan are increasingly taking initiatives to encourage the adoption of terahertz technology, such as substantial investment in R&D, which is boosting demand for terahertz-based products in the region. Increasing product launches are one of the major factors driving the growth of Asia Pacific terahertz technology. The number of people receiving diagnostic tests and cardiovascular disease patients in the area is rising steadily. Invasive technologies are still in demand in the Asia Pacific area compared to non-invasive treatments, which are anticipated to develop at their fastest rate over the forecast period due to the market's increased potential. Thus, the factors mentioned above are driving the Asia Pacific medical terahertz technology market growth.

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

Asia Pacific Medical Terahertz Technology Market Segmentation

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

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

Based on application, the Asia Pacific 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 Asia Pacific medical terahertz technology market.

Based on country, the Asia Pacific medical terahertz technology market is segmented into Australia, China, India, Japan, South Korea, and the Rest of Asia Pacific. China

dominated the market share in 2022.

Advantest Corporation; Insight Product Company; 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 Asia Pacific 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 APAC Medical Terahertz Technology Market – By Type
 - 1.3.2 APAC Medical Terahertz Technology Market – By Application
 - 1.3.3 APAC Medical Terahertz Technology Market – By Country

2. APAC MEDICAL TERAHERTZ TECHNOLOGY MARKET – KEY TAKEAWAYS

3. RESEARCH METHODOLOGY

- 3.1 Coverage
- 3.2 Secondary Research
- 3.3 Primary Research

4. APAC MEDICAL TERAHERTZ TECHNOLOGY MARKET – MARKET LANDSCAPE

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

5. APAC 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 – APAC ANALYSIS

6.1 APAC Medical Terahertz Technology Market Revenue Forecast and Analysis

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

7.1 Overview

7.2 APAC 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 APAC 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. APAC MEDICAL TERAHERTZ TECHNOLOGY MARKET ANALYSIS AND FORECASTS TO 2028 – COUNTRY ANALYSIS

9.1 Overview

9.1.1 Asia Pacific Medical Terahertz Technology Market Revenue and Forecast to 2028, By Country (%)

9.1.1.1 China: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (USD Thousand)

9.1.1.1.1 Overview

9.1.1.1.2 China Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

9.1.1.1.3 China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

9.1.1.1.3.1 China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

9.1.1.1.3.2 China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

9.1.1.1.4 China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

9.1.1.2 Japan: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (USD Thousand)

9.1.1.2.1 Overview

9.1.1.2.2 Japan Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

9.1.1.2.3 Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

9.1.1.2.3.1 Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

9.1.1.2.3.2 Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

9.1.1.2.4 Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

9.1.1.3 India: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (USD Thousand)

9.1.1.3.1 Overview

9.1.1.3.2 India Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

9.1.1.3.3 India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

9.1.1.3.3.1 India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

9.1.1.3.3.2 India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

9.1.1.3.4 India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

9.1.1.4 South Korea: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (USD Thousand)

9.1.1.4.1 Overview

9.1.1.4.2 South Korea Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

9.1.1.4.3 South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

9.1.1.4.3.1 South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

9.1.1.4.3.2 South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

9.1.1.4.4 South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

9.1.1.5 Australia: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (USD Thousand)

9.1.1.5.1 Overview

9.1.1.5.2 Australia Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

9.1.1.5.3 Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

9.1.1.5.3.1 Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

9.1.1.5.3.2 Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

9.1.1.5.4 Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

9.1.1.6 Rest of Asia Pacific: Medical Terahertz Technology Market – Revenue and Forecast to 2028 (USD Thousand)

9.1.1.6.1 Overview

9.1.1.6.2 Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

9.1.1.6.3 Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

9.1.1.6.3.1 Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

9.1.1.6.3.2 Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

9.1.1.6.4 Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD 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 Advantest Corporation

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 Teraview limited

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 Toptica Photonics AG

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 Terasense Group Inc.
- 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 Microtech Instrument 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 Menlo Systems GmbH
- 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 Luna Innovations Inc.
- 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 Insight Product Company
- 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

12. APPENDIX

12.1 About The Insight Partners

12.2 Glossary of Terms

List Of Tables

LIST OF TABLES

Table 1. China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

Table 2. China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

Table 3. China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

Table 4. China Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

Table 5. Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

Table 6. Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

Table 7. Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

Table 8. Japan Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

Table 9. India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

Table 10. India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

Table 11. India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

Table 12. India Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

Table 13. South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

Table 14. South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

Table 15. South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

Table 16. South Korea Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

Table 17. Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

Table 18. Australia Medical Terahertz Technology Market Revenue and Forecasts To

2028, By Terahertz Imaging (USD Thousand)

Table 19. Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

Table 20. Australia Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD Thousand)

Table 21. Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Type (USD Thousand)

Table 22. Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Imaging (USD Thousand)

Table 23. Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Terahertz Spectroscopy (USD Thousand)

Table 24. Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecasts To 2028, By Application (USD 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, APAC Medical Terahertz Technology Market

List Of Figures

LIST OF FIGURES

Figure 1. APAC Medical Terahertz Technology Market Segmentation

Figure 2. APAC Medical Terahertz Technology Segmentation, by Country

Figure 3. APAC Medical Terahertz Technology Market Overview

Figure 4. Terahertz Imaging Segment Held Largest Share of Product Segment in APAC Medical Terahertz Technology Market

Figure 5. Asia Pacific Is Expected to Show Remarkable Growth During the Forecast Period

Figure 6. APAC: PEST Analysis

Figure 7. Experts Opinion

Figure 8. APAC Medical Terahertz Technology Market Impact Analysis of Drivers and Restraints

Figure 9. Asia Pacific Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

Figure 10. APAC 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. APAC 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. Asia Pacific Medical Terahertz Technology Market Revenue Overview, By Country (2022) (USD Thousand)

Figure 21. Asia Pacific Medical Terahertz Technology Market Revenue and Forecast to 2028, By Country (%)

Figure 22. China Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

Figure 23. Japan Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

Figure 24. India Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

Figure 25. South Korea Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

Figure 26. Australia Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

Figure 27. Rest of Asia Pacific Medical Terahertz Technology Market Revenue and Forecast to 2028 (USD Thousand)

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

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