

South & Central America 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 South & Central America medical terahertz technology market is expected to grow from US\$ 5.71 million in 2022 to US\$ 14.01 million by 2028. It is estimated to grow at a CAGR of 16.1% from 2022 to 2028.

Recent Advances in Terahertz Technology for Biomedical Applications is Driving the South & Central America Medical Terahertz Technology Market

THz instrumentation has substantially advanced recently, making THz imaging systems more accessible and user-friendly. THz systems can now be used by people who are not professionals in the field, considerably advancing the study of numerous prospective applications. There is growing interest in biomedical applications, including both in vivo and ex vivo research, because of the non-ionizing properties of THz light and its high sensitivity to soft tissues. The THz research and technology field exploded with the introduction of femtosecond laser-based THz time-domain spectroscopy (THz TDS) and THz imaging techniques. THz-TDS systems, for instance, have been used in practical applications such as detecting and identifying chemicals, explosives, drugs, and pharmaceuticals, as well as the non-destructive examination of pharmaceutical tablets. These applications go beyond basic science and include investigating various motion modes of molecules, crystal lattice vibration, optimizing materials for new solar cells, and others. Additionally, a vital technology for the subsequent generation of airport

security scanners is the passive THz imaging approach. Therefore, the advancement in terahertz technology for biomedical applications is expected to contribute significantly to the medical terahertz technology market growth during the forecast period.

South & Central America Medical Terahertz Technology Market Overview

Based on region, the South & Central America market for medical terahertz technology is segmented into Brazil, Argentina, and the Rest of South and Central America. The region is characterized by a mixed growth scenario, with some countries having complex macroeconomic and political environments. Despite many challenges, governments' positive initiatives are helping most of these countries' economies grow reasonably during the forecast period. The developing economies such as Brazil, Argentina, Chile, and Peru are investing substantially in infrastructure and industrial development. Brazil is experiencing a significant epidemiological shift as the burden of non-communicable diseases (NCDs), such as cancer. The nation is going through a period of economic hardship simultaneously, with severely limited financial resources. The present funds are available to train community health workers. In that case, the public healthcare system, with its focus on primary care, presents a chance to provide integrated care for the growing population of cancer survivors at a reasonable cost. According to WHO, 18.3% of women and 23.8% of men are expected to develop cancer before the age of 75 in Brazil. Increasing cancer cases is the primary factor promoting the cancer diagnostic market. Due to technological advancement, terahertz technology can be widely used in Brazil's cancer imaging process.

South & Central America Medical Terahertz Technology Market Revenue and Forecast to 2028 (US\$ Million)

South & Central America Medical Terahertz Technology Market Segmentation

The South & Central America medical terahertz technology market is segmented into type, application, and country.

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

Based on application, the South & Central America 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 South & Central America medical terahertz technology market.

Based on country, the South & Central America medical terahertz technology market is segmented into Brazil, Argentina, and the Rest of South & Central America. Brazil dominated the market share in 2022.

Advantest Corporation; Luna Innovations Inc.; Microtech Instrument Inc.; Terasense Group Inc. are the leading companies operating in the South & Central America medical terahertz technology market.

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