

# Global Terahertz Imaging Inspection Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

<https://marketpublishers.com/r/GB4E8DBC133FEN.html>

Date: April 2024

Pages: 130

Price: US\$ 3,950.00 (Single User License)

ID: GB4E8DBC133FEN

## Abstracts

This report studies the Terahertz Imaging Inspection market, from angles of players, regions, product types and end industries, to analyze the status and the future.

The 'terahertz gap' – where until recently bright sources of light and sensitive means of detection did not exist – encompasses frequencies invisible to the naked eye in the electromagnetic spectrum, lying between microwave and infrared in the range from 0.3 to 3THz. Terahertz radiation, also known as t-rays, has wavelength of 3-100  $\mu\text{m}$ .

Terahertz imaging is an emerging and significant nondestructive evaluation (NDE) technique used for dielectric (nonconducting, i.e., an insulator) materials analysis and quality control in the pharmaceutical, biomedical, security, materials characterization, and aerospace industries. It has proved to be effective in the inspection of layers in paints and coatings, detecting structural defects in ceramic and composite materials and imaging the physical structure of paintings and manuscripts. The use of THz waves for non-destructive evaluation enables inspection of multi-layered structures and can identify abnormalities from foreign material inclusions, disbond and delamination, mechanical impact damage, heat damage, and water or hydraulic fluid ingress. This new method can play a significant role in a number of industries for materials characterization applications where precision thickness mapping (to assure product dimensional tolerances within product and from product-to-product) and density mapping (to assure product quality within product and from product-to-product) are required.

Terahertz imaging, which is already familiar from airport security checkpoints, has a number of other promising applications. Terahertz biomedical imaging has become an

area of interest due to its ability to simultaneously acquire both image and spectral information. Terahertz imaging systems are being commercialized, with increasing trials performed in a biomedical setting.

Terahertz Imaging Inspection could be used for Homeland Security and Defense, Pharmaceutical & biomedical Industry, and other industry.

According to APO Research, The global Terahertz Imaging Inspection market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

Brainware Terahertz Information Technology Co., Ltd monopolizes the global Terahertz Imaging Inspection market, holding a share about 55%.

China is the largest market, with a share about 60%, followed by North America and Europe, have a share about 25 percent.

In terms of product, Passive Terahertz Imaging is the largest segment, with a share about 60%. And in terms of application, the largest application is Transportation & Public Security, followed by Industrial, Pharmaceutical & BioMedical, etc.

In terms of production side, this report researches the Terahertz Imaging Inspection production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Terahertz Imaging Inspection by region (region level and country level), by company, by type and by application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Terahertz Imaging Inspection, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Terahertz Imaging Inspection, also provides the consumption of main regions and countries. Of the upcoming market potential for Terahertz Imaging Inspection, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South

Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Terahertz Imaging Inspection sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Terahertz Imaging Inspection market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by type and by application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Terahertz Imaging Inspection sales, projected growth trends, production technology, application and end-user industry.

Descriptive company profiles of the major global players, including Brainware Terahertz Information Technology, Advantest Corporation, Luna Innovations Incorporated, Toptica Photonics AG, Terasense Group Inc., TeraView, Daheng New Epoch Technology, Menlo Systems GmbH and Insight Product Co., etc.

Terahertz Imaging Inspection segment by Company

Brainware Terahertz Information Technology

Advantest Corporation

Luna Innovations Incorporated

Toptica Photonics AG

Terasense Group Inc.

TeraView

Daheng New Epoch Technology

Menlo Systems GmbH

Insight Product Co.

Asqella

Traycer

Microtech Instrument Inc

### Terahertz Imaging Inspection segment by Type

Passive Terahertz Imaging

Active Terahertz Imaging

### Terahertz Imaging Inspection segment by Application

Transportation & Public Security

Industrial

Pharmaceutical & BioMedical

Others

### Terahertz Imaging Inspection segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

### Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Terahertz Imaging Inspection market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Terahertz Imaging Inspection and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Terahertz Imaging Inspection.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

## Chapter Outline

Chapter 1: Provides an overview of the Terahertz Imaging Inspection market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Terahertz Imaging Inspection industry.

Chapter 3: Detailed analysis of Terahertz Imaging Inspection market competition landscape. Including Terahertz Imaging Inspection manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main

companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Terahertz Imaging Inspection by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Terahertz Imaging Inspection in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

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