

Terahertz Imaging Inspection Industry Research Report 2024

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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 μm .

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 was valued at US\$ million in 2023 and is anticipated to reach US\$ million by 2030, witnessing a CAGR of xx% during the forecast period 2024-2030.

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.

Report Scope

This report aims to provide a comprehensive presentation of the global market for Terahertz Imaging Inspection, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Terahertz Imaging Inspection.

The report will help the Terahertz Imaging Inspection manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Terahertz Imaging Inspection market size, estimations, and forecasts are provided in terms of sales volume (Units) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Terahertz Imaging Inspection market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles

of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

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

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

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: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Terahertz Imaging Inspection manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: 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 5: Production/output, value of Terahertz Imaging Inspection by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: 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 7: 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 8: 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 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by

manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

Chapter 11: The main points and conclusions of the report.

Contents

1 PREFACE

- 1.1 Scope of Report
- 1.2 Reasons for Doing This Study
- 1.3 Research Methodology
- 1.4 Research Process
- 1.5 Data Source
 - 1.5.1 Secondary Sources
 - 1.5.2 Primary Sources

2 MARKET OVERVIEW

- 2.1 Product Definition
- 2.2 Terahertz Imaging Inspection by Type
 - 2.2.1 Market Value Comparison by Type (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.2.2 Passive Terahertz Imaging
 - 2.2.3 Active Terahertz Imaging
- 2.3 Terahertz Imaging Inspection by Application
 - 2.3.1 Market Value Comparison by Application (2019 VS 2023 VS 2030) & (US\$ Million)
 - 2.3.2 Transportation & Public Security
 - 2.3.3 Industrial
 - 2.3.4 Pharmaceutical & BioMedical
 - 2.3.5 Others
- 2.4 Global Market Growth Prospects
 - 2.4.1 Global Terahertz Imaging Inspection Production Value Estimates and Forecasts (2019-2030)
 - 2.4.2 Global Terahertz Imaging Inspection Production Capacity Estimates and Forecasts (2019-2030)
 - 2.4.3 Global Terahertz Imaging Inspection Production Estimates and Forecasts (2019-2030)
 - 2.4.4 Global Terahertz Imaging Inspection Market Average Price (2019-2030)

3 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS

- 3.1 Global Terahertz Imaging Inspection Production by Manufacturers (2019-2024)
- 3.2 Global Terahertz Imaging Inspection Production Value by Manufacturers

(2019-2024)

3.3 Global Terahertz Imaging Inspection Average Price by Manufacturers (2019-2024)

3.4 Global Terahertz Imaging Inspection Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

3.5 Global Terahertz Imaging Inspection Key Manufacturers, Manufacturing Sites & Headquarters

3.6 Global Terahertz Imaging Inspection Manufacturers, Product Type & Application

3.7 Global Terahertz Imaging Inspection Manufacturers, Date of Enter into This Industry

3.8 Global Terahertz Imaging Inspection Market CR5 and HHI

3.9 Global Manufacturers Mergers & Acquisition

4 MANUFACTURERS PROFILED

4.1 Brainware Terahertz Information Technology

4.1.1 Brainware Terahertz Information Technology Terahertz Imaging Inspection Company Information

4.1.2 Brainware Terahertz Information Technology Terahertz Imaging Inspection Business Overview

4.1.3 Brainware Terahertz Information Technology Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)

4.1.4 Brainware Terahertz Information Technology Product Portfolio

4.1.5 Brainware Terahertz Information Technology Recent Developments

4.2 Advantest Corporation

4.2.1 Advantest Corporation Terahertz Imaging Inspection Company Information

4.2.2 Advantest Corporation Terahertz Imaging Inspection Business Overview

4.2.3 Advantest Corporation Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)

4.2.4 Advantest Corporation Product Portfolio

4.2.5 Advantest Corporation Recent Developments

4.3 Luna Innovations Incorporated

4.3.1 Luna Innovations Incorporated Terahertz Imaging Inspection Company Information

4.3.2 Luna Innovations Incorporated Terahertz Imaging Inspection Business Overview

4.3.3 Luna Innovations Incorporated Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)

4.3.4 Luna Innovations Incorporated Product Portfolio

4.3.5 Luna Innovations Incorporated Recent Developments

4.4 Toptica Photonics AG

4.4.1 Toptica Photonics AG Terahertz Imaging Inspection Company Information

- 4.4.2 Toptica Photonics AG Terahertz Imaging Inspection Business Overview
- 4.4.3 Toptica Photonics AG Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)
- 4.4.4 Toptica Photonics AG Product Portfolio
- 4.4.5 Toptica Photonics AG Recent Developments
- 4.5 Terasense Group Inc.
 - 4.5.1 Terasense Group Inc. Terahertz Imaging Inspection Company Information
 - 4.5.2 Terasense Group Inc. Terahertz Imaging Inspection Business Overview
 - 4.5.3 Terasense Group Inc. Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)
 - 4.5.4 Terasense Group Inc. Product Portfolio
 - 4.5.5 Terasense Group Inc. Recent Developments
- 4.6 TeraView
 - 4.6.1 TeraView Terahertz Imaging Inspection Company Information
 - 4.6.2 TeraView Terahertz Imaging Inspection Business Overview
 - 4.6.3 TeraView Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)
 - 4.6.4 TeraView Product Portfolio
 - 4.6.5 TeraView Recent Developments
- 4.7 Daheng New Epoch Technology
 - 4.7.1 Daheng New Epoch Technology Terahertz Imaging Inspection Company Information
 - 4.7.2 Daheng New Epoch Technology Terahertz Imaging Inspection Business Overview
 - 4.7.3 Daheng New Epoch Technology Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)
 - 4.7.4 Daheng New Epoch Technology Product Portfolio
 - 4.7.5 Daheng New Epoch Technology Recent Developments
- 4.8 Menlo Systems GmbH
 - 4.8.1 Menlo Systems GmbH Terahertz Imaging Inspection Company Information
 - 4.8.2 Menlo Systems GmbH Terahertz Imaging Inspection Business Overview
 - 4.8.3 Menlo Systems GmbH Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)
 - 4.8.4 Menlo Systems GmbH Product Portfolio
 - 4.8.5 Menlo Systems GmbH Recent Developments
- 4.9 Insight Product Co.
 - 4.9.1 Insight Product Co. Terahertz Imaging Inspection Company Information
 - 4.9.2 Insight Product Co. Terahertz Imaging Inspection Business Overview
 - 4.9.3 Insight Product Co. Terahertz Imaging Inspection Production, Value and Gross

Margin (2019-2024)

4.9.4 Insight Product Co. Product Portfolio

4.9.5 Insight Product Co. Recent Developments

4.10 Asqella

4.10.1 Asqella Terahertz Imaging Inspection Company Information

4.10.2 Asqella Terahertz Imaging Inspection Business Overview

4.10.3 Asqella Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)

4.10.4 Asqella Product Portfolio

4.10.5 Asqella Recent Developments

4.11 Traycer

4.11.1 Traycer Terahertz Imaging Inspection Company Information

4.11.2 Traycer Terahertz Imaging Inspection Business Overview

4.11.3 Traycer Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)

4.11.4 Traycer Product Portfolio

4.11.5 Traycer Recent Developments

4.12 Microtech Instrument Inc

4.12.1 Microtech Instrument Inc Terahertz Imaging Inspection Company Information

4.12.2 Microtech Instrument Inc Terahertz Imaging Inspection Business Overview

4.12.3 Microtech Instrument Inc Terahertz Imaging Inspection Production, Value and Gross Margin (2019-2024)

4.12.4 Microtech Instrument Inc Product Portfolio

4.12.5 Microtech Instrument Inc Recent Developments

5 GLOBAL TERAHERTZ IMAGING INSPECTION PRODUCTION BY REGION

5.1 Global Terahertz Imaging Inspection Production Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

5.2 Global Terahertz Imaging Inspection Production by Region: 2019-2030

5.2.1 Global Terahertz Imaging Inspection Production by Region: 2019-2024

5.2.2 Global Terahertz Imaging Inspection Production Forecast by Region (2025-2030)

5.3 Global Terahertz Imaging Inspection Production Value Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

5.4 Global Terahertz Imaging Inspection Production Value by Region: 2019-2030

5.4.1 Global Terahertz Imaging Inspection Production Value by Region: 2019-2024

5.4.2 Global Terahertz Imaging Inspection Production Value Forecast by Region (2025-2030)

5.5 Global Terahertz Imaging Inspection Market Price Analysis by Region (2019-2024)

5.6 Global Terahertz Imaging Inspection Production and Value, YOY Growth

5.6.1 North America Terahertz Imaging Inspection Production Value Estimates and Forecasts (2019-2030)

5.6.2 Europe Terahertz Imaging Inspection Production Value Estimates and Forecasts (2019-2030)

5.6.3 China Terahertz Imaging Inspection Production Value Estimates and Forecasts (2019-2030)

5.6.4 Japan Terahertz Imaging Inspection Production Value Estimates and Forecasts (2019-2030)

6 GLOBAL TERAHERTZ IMAGING INSPECTION CONSUMPTION BY REGION

6.1 Global Terahertz Imaging Inspection Consumption Estimates and Forecasts by Region: 2019 VS 2023 VS 2030

6.2 Global Terahertz Imaging Inspection Consumption by Region (2019-2030)

6.2.1 Global Terahertz Imaging Inspection Consumption by Region: 2019-2030

6.2.2 Global Terahertz Imaging Inspection Forecasted Consumption by Region (2025-2030)

6.3 North America

6.3.1 North America Terahertz Imaging Inspection Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.3.2 North America Terahertz Imaging Inspection Consumption by Country (2019-2030)

6.3.3 U.S.

6.3.4 Canada

6.4 Europe

6.4.1 Europe Terahertz Imaging Inspection Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.4.2 Europe Terahertz Imaging Inspection Consumption by Country (2019-2030)

6.4.3 Germany

6.4.4 France

6.4.5 U.K.

6.4.6 Italy

6.4.7 Russia

6.5 Asia Pacific

6.5.1 Asia Pacific Terahertz Imaging Inspection Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.5.2 Asia Pacific Terahertz Imaging Inspection Consumption by Country (2019-2030)

6.5.3 China

6.5.4 Japan

6.5.5 South Korea

6.5.6 China Taiwan

6.5.7 Southeast Asia

6.5.8 India

6.5.9 Australia

6.6 Latin America, Middle East & Africa

6.6.1 Latin America, Middle East & Africa Terahertz Imaging Inspection Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

6.6.2 Latin America, Middle East & Africa Terahertz Imaging Inspection Consumption by Country (2019-2030)

6.6.3 Mexico

6.6.4 Brazil

6.6.5 Turkey

6.6.5 GCC Countries

7 SEGMENT BY TYPE

7.1 Global Terahertz Imaging Inspection Production by Type (2019-2030)

7.1.1 Global Terahertz Imaging Inspection Production by Type (2019-2030) & (Units)

7.1.2 Global Terahertz Imaging Inspection Production Market Share by Type (2019-2030)

7.2 Global Terahertz Imaging Inspection Production Value by Type (2019-2030)

7.2.1 Global Terahertz Imaging Inspection Production Value by Type (2019-2030) & (US\$ Million)

7.2.2 Global Terahertz Imaging Inspection Production Value Market Share by Type (2019-2030)

7.3 Global Terahertz Imaging Inspection Price by Type (2019-2030)

8 SEGMENT BY APPLICATION

8.1 Global Terahertz Imaging Inspection Production by Application (2019-2030)

8.1.1 Global Terahertz Imaging Inspection Production by Application (2019-2030) & (Units)

8.1.2 Global Terahertz Imaging Inspection Production by Application (2019-2030) & (Units)

8.2 Global Terahertz Imaging Inspection Production Value by Application (2019-2030)

8.2.1 Global Terahertz Imaging Inspection Production Value by Application (2019-2030) & (US\$ Million)

8.2.2 Global Terahertz Imaging Inspection Production Value Market Share by Application (2019-2030)

8.3 Global Terahertz Imaging Inspection Price by Application (2019-2030)

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS OF THE MARKET

9.1 Terahertz Imaging Inspection Value Chain Analysis

9.1.1 Terahertz Imaging Inspection Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Terahertz Imaging Inspection Production Mode & Process

9.2 Terahertz Imaging Inspection Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Terahertz Imaging Inspection Distributors

9.2.3 Terahertz Imaging Inspection Customers

10 GLOBAL TERAHERTZ IMAGING INSPECTION ANALYZING MARKET DYNAMICS

10.1 Terahertz Imaging Inspection Industry Trends

10.2 Terahertz Imaging Inspection Industry Drivers

10.3 Terahertz Imaging Inspection Industry Opportunities and Challenges

10.4 Terahertz Imaging Inspection Industry Restraints

11 REPORT CONCLUSION

12 DISCLAIMER

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