Terahertz spectroscopy detects and controls properties of matter with electromagnetic fields that are in the frequency range between a few hundred gigahertz and several terahertz.

The demand for terahertz and infrared spectroscopy systems has been on the rise due to growth in the semiconductors industry, rising use of THz spectroscopy in homeland security, and burgeoning requirements of the life sciences, pharmaceutical, and chemical industries. Various regulatory authorities across industries have enforced stringent safety regulations in order to ensure that the products launched in the market adhere to quality specifications. The use of terahertz and infrared spectroscopy technologies facilitate compliance with these regulations by enabling the measurement and monitoring of samples.

The Terahertz and Infrared Spectroscopy market was valued at xx Million US$ in 2018 and is projected to reach xx Million US$ by 2025, at a CAGR of xx% during the forecast period. In this study, 2018 has been considered as the base year and 2019 to 2025 as the forecast period to estimate the market size for Terahertz and Infrared Spectroscopy.

This report presents the worldwide Terahertz and Infrared Spectroscopy market size (value, production and consumption), splits the breakdown (data status 2014-2019 and forecast to 2025), by manufacturers, region, type and application.

This study also analyzes the market status, market share, growth rate, future trends, market drivers, opportunities and challenges, risks and entry barriers, sales channels, distributors and Porter’s Five Forces Analysis.

The following manufacturers are covered in this report:
- Teraview
- Menlo Systems
- Advantest
- Luna innovation
- Toptica Photonics
- Thermo Fisher Scientific
- Bruker
- PerkinElmer
- Shimadzu
- Agilent Technologies

Terahertz and Infrared Spectroscopy Breakdown Data by Type
- Near-infrared
- Mid-infrared
- Far-infrared

Terahertz and Infrared Spectroscopy Breakdown Data by Application
- Semiconductor
- R&D (Pharmaceutical and Biomedical)
- Homeland Security
- Non-destructive testing
- Pharmaceuticals & Biotechnology
- Industrial Chemistry
- Environmental Testing
- Food & Beverage Testing

Terahertz and Infrared Spectroscopy Production by Region
- United States
- Europe
- China
- Japan
- South Korea

Other Regions
- Terahertz and Infrared Spectroscopy Consumption by Region
- North America
- United States
- Canada
- Mexico
- Asia-Pacific
- China
- India
- Japan
- South Korea
- Australia
- Indonesia
- Malaysia
- Philippines
- Thailand
- Vietnam
- Europe
- Germany
- France
- UK
Contents:

Table of Contents

1 Study Coverage
   • 1.1 Terahertz and Infrared Spectroscopy Product
   • 1.2 Key Market Segments in This Study
   • 1.3 Key Manufacturers Covered
   • 1.4 Market by Type
      • 1.4.1 Global Terahertz and Infrared Spectroscopy Market Size Growth Rate by Type
      • 1.4.2 Near-infrared
      • 1.4.3 Mid-infrared
      • 1.4.4 Far-infrared
   • 1.5 Market by Application
      • 1.5.1 Global Terahertz and Infrared Spectroscopy Market Size Growth Rate by Application
      • 1.5.2 Semiconductor
      • 1.5.3 R&D (Pharmaceutical and Biomedical)
      • 1.5.4 Homeland Security
      • 1.5.5 Non-destructive testing
      • 1.5.6 Pharmaceuticals & Biotechnology
      • 1.5.7 Industrial Chemistry
      • 1.5.8 Environmental Testing
      • 1.5.9 Food & Beverage Testing
   • 1.6 Study Objectives
   • 1.7 Years Considered

2 Executive Summary
   • 2.1 Global Terahertz and Infrared Spectroscopy Market Size
      • 2.1.1 Global Terahertz and Infrared Spectroscopy Revenue 2014-2025
      • 2.1.2 Global Terahertz and Infrared Spectroscopy Production 2014-2025
   • 2.2 Terahertz and Infrared Spectroscopy Growth Rate (CAGR) 2019-2025
   • 2.3 Analysis of Competitive Landscape
      • 2.3.1 Manufacturers Market Concentration Ratio (CRS and HHI)
      • 2.3.2 Key Terahertz and Infrared Spectroscopy Manufacturers
         • 2.3.2.1 Terahertz and Infrared Spectroscopy Manufacturing Base Distribution, Headquarters
         • 2.3.2.2 Manufacturers Terahertz and Infrared Spectroscopy Product Offered
         • 2.3.2.3 Date of Manufacturers Enter into Terahertz and Infrared Spectroscopy Market
   • 2.4 Key Trends for Terahertz and Infrared Spectroscopy Markets & Products

3 Market Size by Manufacturers
   • 3.1 Terahertz and Infrared Spectroscopy Production by Manufacturers
      • 3.1.1 Terahertz and Infrared Spectroscopy Production by Manufacturers
      • 3.1.2 Terahertz and Infrared Spectroscopy Production Market Share by Manufacturers
   • 3.2 Terahertz and Infrared Spectroscopy Revenue by Manufacturers
      • 3.2.1 Terahertz and Infrared Spectroscopy Revenue by Manufacturers (2014-2019)
      • 3.2.2 Terahertz and Infrared Spectroscopy Revenue Share by Manufacturers (2014-2019)
   • 3.3 Terahertz and Infrared Spectroscopy Price by Manufacturers
   • 3.4 Mergers & Acquisitions, Expansion Plans

4 Terahertz and Infrared Spectroscopy Production by Regions
   • 4.1 Global Terahertz and Infrared Spectroscopy Production by Regions
      • 4.1.1 Global Terahertz and Infrared Spectroscopy Production Market Share by Regions
      • 4.1.2 Global Terahertz and Infrared Spectroscopy Revenue Market Share by Regions
4.2 United States
- 4.2.1 United States Terahertz and Infrared Spectroscopy Production
- 4.2.2 United States Terahertz and Infrared Spectroscopy Revenue
- 4.2.3 Key Players in United States
- 4.2.4 United States Terahertz and Infrared Spectroscopy Import & Export

4.3 Europe
- 4.3.1 Europe Terahertz and Infrared Spectroscopy Production
- 4.3.2 Europe Terahertz and Infrared Spectroscopy Revenue
- 4.3.3 Key Players in Europe
- 4.3.4 Europe Terahertz and Infrared Spectroscopy Import & Export

4.4 China
- 4.4.1 China Terahertz and Infrared Spectroscopy Production
- 4.4.2 China Terahertz and Infrared Spectroscopy Revenue
- 4.4.3 Key Players in China
- 4.4.4 China Terahertz and Infrared Spectroscopy Import & Export

4.5 Japan
- 4.5.1 Japan Terahertz and Infrared Spectroscopy Production
- 4.5.2 Japan Terahertz and Infrared Spectroscopy Revenue
- 4.5.3 Key Players in Japan
- 4.5.4 Japan Terahertz and Infrared Spectroscopy Import & Export

4.6 South Korea
- 4.6.1 South Korea Terahertz and Infrared Spectroscopy Production
- 4.6.2 South Korea Terahertz and Infrared Spectroscopy Revenue
- 4.6.3 Key Players in South Korea
- 4.6.4 South Korea Terahertz and Infrared Spectroscopy Import & Export

4.7 Other Regions
- 4.7.1 Taiwan
- 4.7.2 India
- 4.7.3 Southeast Asia

5 Terahertz and Infrared Spectroscopy Consumption by Regions
- 5.1 Global Terahertz and Infrared Spectroscopy Consumption by Regions
- 5.1.1 Global Terahertz and Infrared Spectroscopy Consumption by Regions
- 5.1.2 Global Terahertz and Infrared Spectroscopy Consumption Market Share by Regions
- 5.2 North America
- 5.2.1 North America Terahertz and Infrared Spectroscopy Consumption by Application
- 5.2.2 North America Terahertz and Infrared Spectroscopy Consumption by Countries
- 5.2.3 United States
- 5.2.4 Canada
- 5.2.5 Mexico
- 5.3 Europe
- 5.3.1 Europe Terahertz and Infrared Spectroscopy Consumption by Application
- 5.3.2 Europe Terahertz and Infrared Spectroscopy Consumption by Countries
- 5.3.3 Germany
- 5.3.4 France
- 5.3.5 UK
- 5.3.6 Italy
- 5.3.7 Russia
- 5.4 Asia Pacific
- 5.4.1 Asia Pacific Terahertz and Infrared Spectroscopy Consumption by Application
- 5.4.2 Asia Pacific Terahertz and Infrared Spectroscopy Consumption by Countries
- 5.4.3 China
- 5.4.4 Japan
- 5.4.5 South Korea
- 5.4.6 India
- 5.4.7 Australia
- 5.4.8 Indonesia
- 5.4.9 Thailand
- 5.4.10 Malaysia
- 5.4.11 Philippines
- 5.4.12 Vietnam
- 5.5 Central & South America
- 5.5.1 Central & South America Terahertz and Infrared Spectroscopy Consumption by Application
- 5.5.2 Central & South America Terahertz and Infrared Spectroscopy Consumption by Country
- 5.5.3 Brazil
- 5.6 Middle East and Africa
- 5.6.1 Middle East and Africa Terahertz and Infrared Spectroscopy Consumption by Application
- 5.6.2 Middle East and Africa Terahertz and Infrared Spectroscopy Consumption by Countries
- 5.6.3 GCC Countries
- 5.6.4 Egypt
- 5.6.5 South Africa

6 Market Size by Type
- 6.1 Global Terahertz and Infrared Spectroscopy Production by Type
- 6.2 Global Terahertz and Infrared Spectroscopy Revenue by Type
- 6.3 Terahertz and Infrared Spectroscopy Price by Type

7 Market Size by Application
- 7.1 Overview
- 7.2 Global Terahertz and Infrared Spectroscopy Breakdown Data by Application
- 7.2.1 Global Terahertz and Infrared Spectroscopy Consumption by Application

8 Manufacturers Profiles
- 8.1 Teraview
- 8.1.1 Teraview Company Details
- 8.1.2 Company Overview
8.1.4 Teraview Terahertz and Infrared Spectroscopy Product Description
8.1.5 Teraview Recent Development
8.2 Menlo Systems
8.2.1 Menlo Systems Company Details
8.2.2 Company Overview
8.2.4 Menlo Systems Terahertz and Infrared Spectroscopy Product Description
8.2.5 Menlo Systems Recent Development
8.3 Advantest
8.3.1 Advantest Company Details
8.3.2 Company Overview
8.3.3 Advantest Terahertz and Infrared Spectroscopy Production Revenue and Gross Margin (2014-2019)
8.3.4 Advantest Terahertz and Infrared Spectroscopy Product Description
8.3.5 Advantest Recent Development
8.4 Luna innovation
8.4.1 Luna innovation Company Details
8.4.2 Company Overview
8.4.3 Luna innovation Terahertz and Infrared Spectroscopy Production Revenue and Gross Margin (2014-2019)
8.4.4 Luna innovation Terahertz and Infrared Spectroscopy Product Description
8.4.5 Luna innovation Recent Development
8.5 Topica Photonics
8.5.1 Topica Photonics Company Details
8.5.2 Company Overview
8.5.3 Topica Photonics Terahertz and Infrared Spectroscopy Production Revenue and Gross Margin (2014-2019)
8.5.4 Topica Photonics Terahertz and Infrared Spectroscopy Product Description
8.5.5 Topica Photonics Recent Development
8.6 Thermo Fisher Scientific
8.6.1 Thermo Fisher Scientific Company Details
8.6.2 Company Overview
8.6.4 Thermo Fisher Scientific Terahertz and Infrared Spectroscopy Product Description
8.6.5 Thermo Fisher Scientific Recent Development
8.7 Bruker
8.7.1 Bruker Company Details
8.7.2 Company Overview
8.7.3 Bruker Terahertz and Infrared Spectroscopy Production Revenue and Gross Margin (2014-2019)
8.7.4 Bruker Terahertz and Infrared Spectroscopy Product Description
8.7.5 Bruker Recent Development
8.8 PerkinElmer
8.8.1 PerkinElmer Company Details
8.8.2 Company Overview
8.8.4 PerkinElmer Terahertz and Infrared Spectroscopy Product Description
8.8.5 PerkinElmer Recent Development
8.9 Shimadzu
8.9.1 Shimadzu Company Details
8.9.2 Company Overview
8.9.4 Shimadzu Terahertz and Infrared Spectroscopy Product Description
8.9.5 Shimadzu Recent Development
8.10 Agilent Technologies
8.10.1 Agilent Technologies Company Details
8.10.2 Company Overview
8.10.4 Agilent Technologies Terahertz and Infrared Spectroscopy Product Description
8.10.5 Agilent Technologies Recent Development

9 Production Forecasts
9.1 Terahertz and Infrared Spectroscopy Production and Revenue Forecast
9.1.1 Global Terahertz and Infrared Spectroscopy Production Forecast 2019-2025
9.1.2 Global Terahertz and Infrared Spectroscopy Revenue Forecast 2019-2025
9.2 Terahertz and Infrared Spectroscopy Production and Revenue Forecast by Regions
9.2.1 Global Terahertz and Infrared Spectroscopy Revenue Forecast by Regions
9.2.2 Global Terahertz and Infrared Spectroscopy Production Forecast by Regions
9.3 Terahertz and Infrared Spectroscopy Key Producers Forecast
9.3.1 United States
9.3.2 Europe
9.3.3 China
9.3.4 Japan
9.3.5 South Korea
9.4 Forecast by Type
9.4.1 Global Terahertz and Infrared Spectroscopy Production Forecast by Type
9.4.2 Global Terahertz and Infrared Spectroscopy Revenue Forecast by Type

10 Consumption Forecast
10.1 Terahertz and Infrared Spectroscopy Consumption Forecast by Application
10.2 Terahertz and Infrared Spectroscopy Consumption Forecast by Regions
10.3 North America Market Consumption Forecast
10.3.1 North America Terahertz and Infrared Spectroscopy Consumption Forecast by Regions 2019-2025
10.3.2 United States
10.3.3 Canada
10.3.4 Mexico
10.4 Europe Market Consumption Forecast
10.4.1 Europe Terahertz and Infrared Spectroscopy Consumption Forecast by Regions 2019-2025
10.4.2 Germany
10.4.3 France
10.4.4 UK
10.4.5 Italy
10.4.6 Russia
10.5 Asia Pacific Market Consumption Forecast
10.5.1 Asia Pacific Terahertz and Infrared Spectroscopy Consumption Forecast by Regions 2019-2025
10.5.2 China
10.5.3 Japan
10.5.4 South Korea
10.5.5 India
10.5.6 Australia
10.5.7 Indonesia
10.5.8 Thailand
10.5.9 Malaysia
10.5.10 Philippines
10.5.11 Vietnam
10.6 Central & South America Market Consumption Forecast
10.6.1 Central & South America Terahertz and Infrared Spectroscopy Consumption Forecast by Regions 2019-2025
10.6.2 Brazil
10.7 Middle East and Africa Market Consumption Forecast
10.7.1 Middle East and Africa Terahertz and Infrared Spectroscopy Consumption Forecast by Regions 2019-2025
10.7.2 GCC Countries
10.7.3 Egypt
10.7.4 South Africa

11 Value Chain and Sales Channels Analysis
11.1 Value Chain Analysis
11.2 Sales Channels Analysis
11.2.1 Terahertz and Infrared Spectroscopy Sales Channels
11.2.2 Terahertz and Infrared Spectroscopy Distributors
11.3 Terahertz and Infrared Spectroscopy Customers

12 Market Opportunities & Challenges, Risks and Influences Factors Analysis
12.1 Market Opportunities and Drivers
12.2 Market Challenges
12.3 Market Risks/Restraints

13 Key Findings in the Global Terahertz and Infrared Spectroscopy Study

14 Appendix
14.1 Research Methodology
14.1.1 Methodology/Research Approach
14.1.1.1 Research Programs/Design
14.1.1.2 Market Size Estimation
14.1.1.3 Market Breakdown and Data Triangulation
14.1.2 Data Source
14.1.2.1 Secondary Sources
14.1.2.2 Primary Sources
14.2 Author Details