

# **Global Infrared & Terahertz Spectroscopy Market Size study, By Spectrum (Near-Infrared Radiation (Nir), Mid-Infrared Radiation (Mir) , Far-Infrared Radiation (Fir)), By Technology (Benchtop, Microscopy, Portable & Handheld , Hyphenated), By Application (Semiconductors, Homeland Security, Non-Destructive Testing, Research & Development Biomedical), By End-Use (Pharmaceuticals & Biotechnology, Industrial Chemistry, Food & Beverage Testing, Environmental Testing, Other Application), and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Infrared & Terahertz Spectroscopy Market is valued approximately USD 1.0 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 5.2% over the forecast period 2022-2028.

The increasing number of government investments in infrared spectroscopy technologies, growing food safety concerns, and continuous technological advancements in spectroscopy are the chief factors that may accelerate the market demand across the globe. In addition, the rising applications of terahertz spectroscopy as a screening technique majorly in homeland security, coupled with the strategic actions such as a product launch, mergers, acquisition, etc. by the leading market players are factors that surge the market demand in the impending years. For instance, in 2020, Bruker Corporation launched the company's novel OMEGA 5 FTIR Gas Analyzer, which is deliberated to adopt in various applications like the study of process

monitoring, catalytic processes, or the determination of gas impurities. Additionally, in 2019, PerkinElmer (US) acquired Meizheng group with the aim of widening the company's portfolio for the grain & milling, meat, seafood, and dairy markets. However, the high initial capital investment required impedes the growth of the market over the forecast period of 2022-2028. Also, potential applications of terahertz spectroscopy in healthcare and the adoption of NIR spectroscopy in seed detection are anticipated to act as a catalyzing factor for the market demand during the forecast period.

The key regions considered for the global Infrared & Terahertz Spectroscopy Market study include Asia Pacific, North America, Europe, Latin America, and the Rest of the World. North America is the leading region across the world in terms of market share owing to the high adoption of advanced healthcare technology and the presence of major market players in the region. Whereas, Asia-Pacific is anticipated to exhibit the highest CAGR over the forecast period 2022-2028. Factors such as growing concerns regarding food safety, as well as rising investments by the major market players, would create lucrative growth prospects for the Infrared & Terahertz Spectroscopy Market across the Asia-Pacific region.

Major market players included in this report are:

Toptica Photonics

Thermo Fisher Scientific Inc.

TeraView Limited

Shimadzu Medical Pvt. Ltd

PerkinElmer Inc.

Menlo Systems

Bruker

Agilent Technologies, Inc.

Bio-Rad Laboratories, Inc.

Intertek Group plc

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

**By Spectrum:**

Near-Infrared Radiation (NIR)

Mid-Infrared Radiation (MIR)

Far-Infrared Radiation (FIR)

**By Technology:**

Benchtop

Microscopy

Portable &amp; Handheld

Hyphenated

**By Application:**

Semiconductors

Homeland Security

Non-Destructive Testing

Research &amp; Development Biomedical

**By End-Use:**

Pharmaceuticals &amp; Biotechnology

Industrial Chemistry

Food &amp; Beverage Testing

Environmental Testing

Other Application

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America  
Brazil  
Mexico  
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020  
Base year – 2021  
Forecast period – 2022 to 2028

Target Audience of the Global Infrared & Terahertz Spectroscopy Market in Market Study:

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

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