

# **Infrared and Terahertz Spectroscopy Market: Market Segments: 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 User (Pharmaceuticals & Biotechnology, Industrial Chemistry, Food & Beverage Testing, Environmental Testing and Other); and Region – Global Analysis of Market Size, Share & Trends for 2014 – 2020 and Forecasts to 2030**

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## **Abstracts**

### Product Overview

Measurement of the interaction of infrared radiation with the matter by emission, absorption, or reflection is known as Infrared spectroscopy. It is primarily used to identify and study functional groups and chemical substances in solid, liquid, or gaseous forms. It is a reliable and simple technique used in dynamic measurement, quantity control, and supervising applications. Infrared Spectroscopy is also utilized in the food industry to measure the concentration of several compounds in different food products.

### Market Highlights

Global Infrared and Terahertz Spectroscopy Market are expected to project a notable CAGR of 21.10% in 2030.

Global Infrared and Terahertz Spectroscopy Market to surpass USD 4.67 billion by 2030

from USD 0.63 billion in 2020 at a CAGR of 21.10% in the coming years, i.e., 2020-30. The market is estimated to grow owing to the factors such as strict regulations in the pharmaceutical industry, increasing concerns regarding food safety, and an increase in the investments, grants, and funds by the government bodies.

#### Global Infrared and Terahertz Spectroscopy Market: Segments

Mid-Infrared Radiation segment to grow with the highest CAGR during 2020-30

Global Infrared and Terahertz Spectroscopy Market are segmented by Spectrum into Near-Infrared Radiation (NIR), Mid-Infrared Radiation (MIR), Far-Infrared Radiation (FIR). The mid-Infrared Radiation segment held the largest market share of XX.X% in the year 2019. The wide utilization of mid-infrared radiation in healthcare and pharmaceutical applications and the food, industry is driving the growth of this segment.

#### Market Dynamics

##### Drivers

##### Rising semiconductor Sector

Terahertz spectroscopy is commonly used to detect faults in circuits and to develop and analyze semiconductor materials. The ability to detect and measure charge carriers is expected to establish avenues for semiconductors to use the terahertz technology. In recent years advanced terahertz spectrometers have allowed non-destructive, rapid isolation of semiconductors.

##### High prices of equipment

Infrared and Terahertz Spectroscopy Market devices are equipped with cameras, detectors and scanners which increases its cost. They have advanced features and functions, hence, are costly. The devices used for industrial applications such as semiconductors and non-destructive testing have high prices.

#### Global Infrared and Terahertz Spectroscopy Market: Key Players

PerkinElmer Inc

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Toptica Photonics

Thermo Fisher Scientific Inc.

TeraView Limited.

Shimadzu Medical (India) Pvt. Lt

Menlo System

Bruker

Agilent Technologies, Inc

ADVANTEST CORPORATION

Advancedphotonix

Bio-Rad Laboratories, Inc

METTLER TOLEDO.

Other prominent players

Global Infrared and Terahertz Spectroscopy Market: Regions

Global Infrared and Terahertz Spectroscopy Market are segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and Middle East, and Africa. Global Infrared and Terahertz Spectroscopy Market in North America held the largest market share of XX.X% in the year 2019.

North America will continue to dominate the global Infrared and Terahertz Spectroscopy Market because of technological growth, strengthened industrial infrastructure, presence of key players and a higher rate of new technology adoption.

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Consultant Recommendation

\*\*The above-given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.

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