Global Infrared Spectroscopy Devices Market Research Report- Forecast to 2023

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Description:

Global Infrared Spectroscopy Devices Market Share, Trends and Growth Analysis By Spectrum Sensitivity (Near-Infrared (NIR), Mid-Infrared (Mid IR), And Far-Infrared (Far IR)); By Technology (Dispersive Infrared Spectroscopy And Fourier Transform Infrared (FTIR) Spectroscopy)); By Product (Bench Top, Portable, And Hyphenated) And By End Users (Hospitals And Clinics, Pharmaceutical Industry And Research Laboratories) - Forecast Till 2023

Market Synopsis of Global Infrared Spectroscopy devices Market:

Infrared (IR) spectroscopy is a technique used for structure elucidation, detecting and quantifying elements or molecules in any sample which may be solid, liquid, or gas. IR spectroscopy exploits the fact that different elements and molecules absorb frequencies characteristic of their structure. The infrared spectrum is a graph of infrared light absorbance (or transmittance) on the vertical axis vs. frequency or wavelength on the horizontal axis and is then used to detect, quantify and study different samples. IR spectroscopy has become an indispensable technique in numerous industries such as pharmaceutical, biotechnology, food, chemical etc. for quality control and raw material testing.

The market for IR spectroscopy devices is booming due to factors such as growing concern for safety, stringent regulations for purity of the product, growing cases of adulteration etc. However technological innovations is the critical market driving factor for the global infrared spectroscopy devices market. The most successful technology and product development strategies include

- Development of high sensitivity and low response time detectors such as photo-conducting detectors
- Growing miniaturization and portability
- Coupling of IR spectrosopes (Hyphenation) with other instruments such as high pressure liquid chromatography (HPLC) to gather more information on the sample in the most efficient manner.

The market constraints involve growing cost of the instruments and high capital investment requirement for setting up manufacturing of the instruments.

The global market for infrared spectroscopy devices is expected to reach around USD 1821 million by the end of the forecast period and is expected to grow at a CAGR of 7.2%.

Study Objectives Global Infrared Spectroscopy devices Market:

- To provide detail analysis of the market structure along with forecast for the next 6 years of the various segments and sub-segments of the global infrared spectroscopy devices market
- To provide insights about factors affecting the market growth
- To analyze the market based on various factors-price analysis, supply chain analysis, porters five
force analysis etc.

- To provide historical and forecast revenue of the market segments and sub-segments with respect to four main geographies and their countries—Americas, Europe, Asia-Pacific, and Middle East & Africa.

- To provide country level analysis of the market with respect to the current market size and future prospective

- To provide country level analysis of the market for segments by spectrum sensitivity, technology, product and by end user and other sub segments.

- To provide overview of key players and their strategic profiling in the market, comprehensively analyzing their core competencies, and drawing a competitive landscape for the market

- To track and analyze competitive developments such as joint ventures, strategic alliances, mergers and acquisitions, new product developments, and research and developments globally.

Global Infrared spectroscopy devices Market, by Technology, 2016 (% Market Share):

- Dispersive infrared spectroscopy
- Fourier transform infrared (FTIR) spectroscopy

Intended Audience

- Infrared spectroscopy devices Manufacturers
- Infrared spectroscopy devices Suppliers
- Private Research Laboratories
- Research and Development (R&D) Companies
- Market Research and Consulting Service Providers
- Government Research Laboratories
- Contract Manufacturing Organizations

Key Players for Global Infrared spectroscopy devices Market:

Some of the key players in this market are: PerkinElmer, Jasco, Shimadzu, Bruker Corp., Agilent Technologies, Thermo Fisher Scientific Inc., Princeton Instruments, Sartorius AG and others.

Segments:

Global infrared spectroscopy devices market has been segmented on the basis of spectrum sensitivity, which comprises near-infrared (NIR), mid-infrared (Mid IR), and far-infrared (Far IR). On the basis of technology; market is segmented into dispersive infrared spectroscopy and Fourier transform infrared (FTIR) spectroscopy. On the basis of product; market is segmented into bench top, portable, and hyphenated. On the basis of end user; market is segmented into hospitals and clinics, pharmaceutical industry and research laboratories.

Regional Analysis of Global Infrared spectroscopy devices Market:

Globally America is the largest market for infrared spectroscopy devices. Rapid development and uptake of technology and large research industry in the U.S. are the two most important factors for
the dominance of America. Europe is the second-largest market for infrared spectroscopy devices. Asia pacific region is expected to be fastest growing region in infrared spectroscopy devices market due to growing research and development expenditure and fast growing industrial economy.

The report for Global Infrared spectroscopy devices Market of Market Research Future comprises extensive primary research along with the detail analysis of qualitative as well as quantitative aspects by various industry experts, key opinion leaders to gain the deeper insight of the market and industry performance. The report gives the clear picture of current market scenario which includes historical and projected market size in terms of value and volume, technological advancement, macro economical and governing factors in the market. The report provides detail information and strategies of the top key players in the industry. The report also gives a broad study of the different markets segments and regions.

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