Process Spectroscopy: The Global Market

Description: This report provides:

- An investigation of the market for process spectroscopy technologies and equipment in modern manufacturing settings, particularly for high volume or high value outputs.
- Quantification of the market, with data from 2014 and 2015, and projections of CAGRs through 2020.
- Information on key market applications such as hydrocarbon processing, semiconductor manufacturing, food substance screening, and pharmaceutical unit operations.
- Coverage of the main technologies such as Near infrared (NIR) spectroscopy, Raman spectroscopy and Fourier Transform infrared (FT-IR) spectroscopy.
- Patent analysis.
- Comprehensive company profiles of the major spectroscopy equipment manufacturers.

Highlights

- The global market for process spectroscopy equipment reached $1.1 billion in 2014. This market is forecast to grow at a compound annual growth rate (CAGR) of 5.5% to reach $1.5 billion in 2020 from nearly $1.2 billion in 2015.
- The U.S. market for process spectroscopy equipment is projected to grow from $450 million in 2015 to $530 million in 2020 at a CAGR of 3.3% for the period 2015-2020.
- The Rest of the World as a segment for process spectroscopy equipment is expected to grow from $340 million in 2015 to $490 million by 2020, increasing at a CAGR of 7.6% for the period 2015-2020.

Intended Audience

This study will be of interest to manufacturers of spectroscopic equipment in the categories of ultraviolet (UV) and visible, near infrared (NIR), FTIR and Raman instruments. Regulations and standards that affect the use of process spectroscopy are included.

Scope Of Report

Process spectroscopy is defined as any use of spectroscopy to obtain real-time data to monitor and optimize a manufacturing process. The report includes UV and visible process spectroscopy, fluorescence spectroscopy, infrared (IR) and NIR process spectroscopy, FTIR, Raman spectroscopy, hyperspectral imaging technology and process spectroscopy computer systems.

The industry is analyzed on a global basis from both market and application perspectives and a technology perspective. Process spectroscopy applications may be subject to unique regulations and standards from different regulatory agencies. For instance, spectroscopy used for food product contamination detection is subject to more regulations, systems, standards and monitoring than similar technologies used for experimental process reaction monitoring. A patent analysis documents the history of innovation in this field. This report also provides company profiles and contact information.

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