

Biophotonics Market by End User (Medical Diagnostics, Medical Therapeutic, Tests & Components, and Nonmedical Application) and Application (See-Through Imaging, Inside Imaging, Spectro Molecular, Surface Imaging, Microscopy, Light Therapy, Analytical Sensing, and Biosensors) - Global Opportunity Analysis and Industry Forecast, 2014-2022

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Abstracts

Global biophotonics market size is expected to reach \$63.1 billion by 2022 from \$31.6 billion in 2015, growing at a CAGR of 10.4% from 2016 to 2022. Biophotonics is the science of generating and harnessing light to visualize, detect, and manipulate biological materials. Biophotonics uses light and other forms of radiant energy to understand the internal activities of cells and tissues in living organisms. In biology, biophotonics is utilized for the analysis of molecular mechanisms, functions, and structures. In medicine, it is used to study the light-tissue interactions at micro-, nano-, and macro-organism level to detect, diagnose, and treat diseases. Moreover, it helps in emission, detection, absorption, reflection, modification, and creation of radiation from bimolecular, cells, tissues, organisms, and biomaterials.

The biophotonics market is expected to register substantial growth in the near future owing to emergence of nanotechnology. Moreover, increase in technological advancement and R&D activities in optical technologies across telecom & information technology sectors drive the growth of biophotonics market. However, high price of biophotonics devices and complexity associated with this technology restrain the of market growth. Increased use of biophotonics in nonmedical sectors provides lucrative opportunity for the market.

The biophotonics market is segmented on the basis of end user, application, and geography. Based on end user, the market is categorized into medical diagnostics, medical therapeutic, tests & components, and nonmedical application. Applications covered in the study include see-through imaging, inside imaging, molecular spectroscopy, surface imaging, microscopy, light therapy, analytical sensing, and biosensors. Geographically, the market is analyzed across North America (U.S., Canada, and Mexico), Europe (Germany, UK, France, Italy, and rest of Europe), Asia-Pacific (China, Japan, India, and rest of Asia-pacific,) and LAMEA (Latin America, Middle East, and Africa).

Key market players included in this report are Affymetrix Inc.; Andor Technology Ltd.; Carl Zeiss AG; Becton, Dickinson and Company; FEI Company; Hamamatsu Photonics K.K.; Lumenis Ltd.; Olympus Corporation; PerkinElmer Inc.; Zecotek Photonics Inc.; and others.

KEY BENEFITS

The study provides an in-depth analysis of the biophotonics market with current and future trends to elucidate the imminent investment pockets in the market.

The report provides information about key drivers, restraints, and opportunities with impact analysis.

Porter's Five Forces model analysis of the industry illustrates the potency of the buyers and suppliers of the market.

Market player positioning in the report provides a clear understanding of the position of leading companies.

MARKET SEGMENTATION BY END USER

Medical Diagnostics

Medical Therapeutic

Tests & Components

Nonmedical Application

BY APPLICATION

See-Through Imaging

Inside Imaging

Spectro molecular

Surface Imaging

Microscopy

Light Therapy

Analytical Sensing

Biosensors

BY GEOGRAPHY

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

UK

Rest of Europe

Asia-Pacific

China

India

Japan

Rest of Asia-Pacific

LAMEA

Latin America

Middle East

Africa

KEY PLAYERS

Affymetrix Inc.

Andor Technology Ltd.

Carl Zeiss AG

Becton, Dickinson and Company

FEI Company

Hamamatsu Photonics K.K.

Lumenis Ltd.

Olympus Corporation

PerkinElmer Inc.

Zecotek Photonics Inc.

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