

US Biophotonics Market Size study, 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) Forecasts 2022-2032

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Abstracts

US Biophotonics Market is valued approximately USD 18.50 Billion in 2023 and is anticipated to grow with a healthy growth rate of more than 10.86% over the forecast period 2024-2032. Biophotonics is the study of creating and operating light in order to see, identify, and alter biological elements. In order to comprehend how living things' internal tissues and cell's function, light and other radiant energy sources are used. The study of molecular structures, functions, and processes is done in biology using biophotonics. Light-tissue interactions at the micro, nano, and macro-organism level are studied in medicine to identify, characterize, and treat illnesses. Furthermore, radiation from bimolecular, cells, tissues, organisms, and biomaterials can be detected, absorbed, reflected, modified, and generated with its assistance. Trends such as AI and ML are increasingly being integrated with biophotonic technologies to enhance image analysis, pattern recognition, and diagnostic accuracy. These advancements allow for more precise and automated interpretations of biophotonic data, leading to improved diagnostic capabilities. Therefore, this trend further drive demand for the US Biophotonics Market during the forecast period.

The growing preference for minimally invasive medical procedures is a major driver for the demand in the US biophotonics market. Patients and healthcare providers increasingly favor these procedures due to their numerous benefits, including reduced



risk of complications, shorter recovery times, and lower healthcare costs. Biophotonic technologies, such as optical coherence tomography (OCT) and laser-based treatments, align perfectly with this trend by offering precise, non-invasive diagnostic and therapeutic options. For instance, OCT provides detailed imaging of internal tissues without the need for incisions, while laser therapies allow targeted treatment of conditions such as tumors and eye disorders with minimal damage to surrounding tissues. This shift towards less invasive methods enhances patient comfort and outcomes which also boosts the adoption of advanced biophotonic solutions in clinical practice. Consequently, the growing preference for minimally invasive procedures significantly propels the biophotonics market in the US, driving technological advancements and market expansion. However, advanced technology and precision engineering required for biophotonic devices result in high costs and regulatory compliance can stifle market growth during the forecast period 2024-2032.

Major market player included in this report are:

Thermo Fisher Scientific Inc.

Glenbrook Technologies Inc.

Becton, Dickinson and Company

PerkinElmer Inc.

Zenalux Biomedical Inc.

Company 6

Company 7

Company 8

Company 9

Company 10

The detailed segments and sub-segment of the market are explained below:

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

Years considered for the study are as follows: Historical year – 2022 Base year – 2023 Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and Country level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.



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