

# Biophotonics Market is Anticipated to Develop Altogether at Strong CAGR | Thermo Fisher Scientific., Oxford Technologies

*The global biophotonics market was valued at \$52.17 billion in 2020, and is projected to reach \$133.90 billion by 2030, at a CAGR of 10.50% from 2021 to 2030..*

WILMINGTON, DE, UNITED STATES, July 29, 2025 /EINPresswire.com/ -- Allied Market Research

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Biophotonics market - In 2020, the medical diagnostics segment accounted for the maximum revenue and is projected to grow at a notable CAGR of 10.10% during the forecast period.”

*Allied Market Research*

published a report, titled, "[Biophotonics Market](#) By End User (Medical Diagnostics, Medical Therapeutics, 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, 2021–2030." According to the report, the global [biophotonics](#) industry generated \$52.17 billion in 2020, and is expected to reach \$133.90 billion by 2030, witnessing a CAGR of 10.5% from 2021 to 2030.

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## Drivers, Restraints, and Opportunities

The emergence of nanotechnology, R&D activities in the field of optics, and surge in use of biophotonic devices for medical & nonmedical purposes drive the growth of the global biophotonics market. However, high cost of equipment restrains the market growth. Contrarily, the use of biophotonics in non-medical sectors is expected to present opportunities for the market.

## Covid-19 Scenario

The Covid-19 affected the global biophotonics market due to lack of availability of skilled professionals for operating the technology. It also impacted the R&D activities due to closure of facilities.

In addition, resources in the hospital were shifted to take care of rise in the number of Covid-19

patients, and non-emergent procedures were postponed across the world. This impacted the revenue of the global biophotonics market.

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The Medical Diagnostics Segment to Maintain its Dominant Share during the forecast period

Based on end use, the medical diagnostics segment accounted for the highest market share in 2020, contributing to nearly three-fifths of the global biophotonics market, and is projected to maintain its dominant share in terms of revenue during the forecast period. This is due to technological advancements in the field of diagnostics, rise in incidences of chronic diseases, and surge in awareness about healthcare. However, the non-medical segment is estimated to witness the highest CAGR of 13.4% from 2021 to 2030, owing to increase in use in life science, agriculture, environmental science, and microscopy.

The Analytics Sensing Segment to continue its Lead Position Throughout the Forecast Period

Based on application, the analytics sensing segment held the highest market share in 2020, accounting for more than one-fourth of the global biophotonics market, and is projected to continue its lead position throughout the forecast period. This is attributed to the widespread usage of this application. However, the microscopy segment is estimated to register the largest CAGR of 11.5% from 2021 to 2030, owing to high-throughput techniques and the digitization of microscopes.

North America to Maintain its Leadership Status by 2030

Based on region, North America contributed to the highest market share in terms of revenue in 2020, accounting for more than one-third of the global biophotonics market, and is expected to maintain its leadership status by 2030. This is due to increased use in the medical sector for therapy and non-medical applications. However, Asia-Pacific is projected to portray the fastest CAGR of 11.8% during the forecast period, owing to technological advancements and development of new products by leading market players in the region.

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Leading Market Players

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