

# **Optical Preclinical Imaging Market Size, Trends, Analysis, and Outlook By Product (Device, Consumables, Software), By End-user (Pharma and Biotech Companies, Research Institutes, Others), by Region, Country, Segment, and Companies, 2024-2030**

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## **Abstracts**

The global Optical Preclinical Imaging market size is poised to register 6.09% growth from 2024 to 2030, presenting significant growth prospects for companies operating in the industry. The industry study analyzes the global Optical Preclinical Imaging market across By Product (Device, Consumables, Software), By End-user (Pharma and Biotech Companies, Research Institutes, Others).

The Optical Preclinical Imaging Market is witnessing growth driven by the increasing adoption of molecular imaging techniques and optical imaging modalities in preclinical research and drug development, and the advancements in fluorescence, bioluminescence, and multispectral imaging technologies for non-invasive visualization and quantification of biological processes in small animal models. Optical preclinical imaging encompasses a variety of non-invasive imaging techniques, including fluorescence imaging, bioluminescence imaging, and multispectral imaging, used by pharmaceutical companies, academic research institutions, and contract research organizations (CROs) for in vivo imaging of molecular pathways, cellular interactions, and disease progression in small animals. Key trends shaping its future include the development of integrated multimodal imaging systems and hybrid imaging platforms for complementary and synergistic imaging modalities, the customization of optical imaging agents and probes for targeted molecular imaging and theranostic applications, and the integration of artificial intelligence and machine learning algorithms for image analysis, quantification, and data interpretation. Additionally, factors such as the increasing demand for translational imaging biomarkers and surrogate endpoints in preclinical drug

development, the expansion of preclinical imaging facilities and core imaging centers, and the collaborations between academia and industry to validate imaging biomarkers and accelerate drug discovery and validation are expected to drive market growth in 2024 and beyond.

## Optical Preclinical Imaging Market Drivers, Trends, Opportunities, and Growth Opportunities

This comprehensive study discusses the latest trends and the most pressing challenges for industry players and investors. The Optical Preclinical Imaging market research analyses the global market trends, key drivers, challenges, and opportunities in the industry. In addition, the latest Future of Optical Preclinical Imaging survey report provides the market size outlook across types, applications, and other segments across the world and regions. It provides data-driven insights and actionable recommendations for companies in the Optical Preclinical Imaging industry.

## Key market trends defining the global Optical Preclinical Imaging demand in 2024 and Beyond

The industry continues to remain an attractive hub for opportunities for both domestic and global vendors. As the market evolves, factors such as emerging market dynamics, demand from end-user sectors, a growing patient base, changes in consumption patterns, and widening distribution channels continue to play a major role.

## Optical Preclinical Imaging Market Segmentation- Industry Share, Market Size, and Outlook to 2030

The Optical Preclinical Imaging industry comprises a wide range of segments and sub-segments. The rising demand for these product types and applications is supporting companies to increase their investment levels across niche segments. Accordingly, leading companies plan to generate a large share of their future revenue growth from expansion into these niche segments. The report presents the market size outlook across segments to support Optical Preclinical Imaging companies scaling up production in these sub-segments with a focus on expanding into emerging countries.

## Key strategies adopted by companies within the Optical Preclinical Imaging industry

Leading Optical Preclinical Imaging companies are boosting investments to capitalize on untapped potential and future possibilities across niche market segments and

surging demand conditions in key regions. Further, companies are leveraging advanced technologies to unlock opportunities and achieve operational excellence. The report provides key strategies opted for by the top 10 Optical Preclinical Imaging companies.

### Optical Preclinical Imaging Market Study- Strategic Analysis Review

The Optical Preclinical Imaging market research report dives deep into the qualitative factors shaping the market, empowering you to make informed decisions-

**Industry Dynamics:** Porter's Five Forces analysis to understand bargaining power, competitive rivalry, and threats that impact long-term strategy formulation.

**Strategic Insights:** Provides valuable perspectives on key players and their approaches based on comprehensive strategy analysis.

**Internal Strengths and Weaknesses:** Develop targeted strategies to leverage strengths, address weaknesses, and capitalize on market opportunities.

**Future Possibilities:** Prepare for diverse outcomes with in-depth scenario analysis. Explore potential market disruptions, technology advancements, and economic changes.

### Optical Preclinical Imaging Market Size Outlook- Historic and Forecast Revenue in Three Cases

The Optical Preclinical Imaging industry report provides a detailed analysis and outlook of revenue generated by companies from 2018 to 2023. Further, with actual data for 2023, the report forecasts the market size outlook from 2024 to 2030 in three case scenarios- low case, reference case, and high case scenarios.

### Optical Preclinical Imaging Country Analysis and Revenue Outlook to 2030

The report analyses 22 countries worldwide including the key driving forces and market size outlook from 2021 to 2030. In addition, region analysis across Asia Pacific, Europe, the Middle East, Africa, North America, and South America is included in the study. For each of the six regions, the market size outlook by segments is forecast for 2030.

## North America Optical Preclinical Imaging Market Size Outlook- Companies plan for focused investments in a changing environment

The US continues to remain the market leader in North America, driven by a large consumer base, the presence of well-established providers, and a strong end-user industry demand. Leading companies focus on new product launches in the changing environment. The US economy is expected to grow in 2024 (around 2.2% growth in 2024), potentially driving demand for various Optical Preclinical Imaging market segments. Similarly, Strong end-user demand is encouraging Canadian Optical Preclinical Imaging companies to invest in niche segments. Further, as Mexico continues to strengthen its trade relations and invest in technological advancements, the Mexico Optical Preclinical Imaging market is expected to experience significant expansion, offering lucrative opportunities for both domestic and international stakeholders.

## Europe Optical Preclinical Imaging Market Size Outlook-Companies investing in assessing consumers, categories, competitors, and capabilities

The German industry remains the major market for companies in the European Optical Preclinical Imaging industry with consumers in Germany, France, the UK, Spain, Italy, and others anticipated to register a steady demand throughout the forecast period, driving the overall market prospects. In addition, the proactive approach of businesses in identifying and leveraging new growth prospects positions the European Optical Preclinical Imaging market for an upward trajectory, fostering both domestic and international interest. Leading brands operating in the industry are emphasizing effective marketing strategies, innovative product offerings, and a keen understanding of consumer preferences.

## Asia Pacific Optical Preclinical Imaging Market Size Outlook- an attractive hub for opportunities for both local and global companies

The increasing prevalence of indications, robust healthcare expenditure, and increasing investments in healthcare infrastructure drive the demand for Optical Preclinical Imaging in Asia Pacific. In particular, China, India, and South East Asian Optical Preclinical Imaging markets present a compelling outlook for 2030, acting as a magnet for both domestic and multinational manufacturers seeking growth opportunities. Similarly, with a burgeoning population and a rising middle class, India offers a vast consumer market. Japanese and Korean companies are quickly aligning their strategies to navigate changes, explore new markets, and enhance their competitive edge. Our report utilizes

in-depth interviews with industry experts and comprehensive data analysis to provide a comprehensive outlook of 6 major markets in the region.

Latin America Optical Preclinical Imaging Market Size Outlook- Continued urbanization and rising income levels

Rising income levels contribute to greater purchasing power among consumers, spurring consumption and creating opportunities for market expansion. Continued urbanization and rising income levels are expected to sustainably drive consumption growth in the medium to long term.

Middle East and Africa Optical Preclinical Imaging Market Size Outlook- continues its upward trajectory across segments

Robust demand from Middle Eastern countries including Saudi Arabia, the UAE, Qatar, Kuwait, and other GCC countries supports the overall Middle East Optical Preclinical Imaging market potential. Fueled by increasing healthcare expenditure of individuals, growing population, and high prevalence across a few markets drives the demand for Optical Preclinical Imaging.

Optical Preclinical Imaging Market Company Profiles

The global Optical Preclinical Imaging market is characterized by intense competitive conditions with leading companies opting for aggressive marketing to gain market shares. The report presents business descriptions, SWOT analysis, growth strategies, and financial profiles. Leading companies included in the study are Berthold Technologies GmbH & Co.KG, Endress+Hauser, Fujifilm Corp, LI-COR Biosciences Inc, Miltenyi Biotec, PerkinElmer Inc, Rigaku Corp, TriFoil Imaging, Vieworks Co. Ltd, Vilber Smart Imaging Ltd

Recent Optical Preclinical Imaging Market Developments

The global Optical Preclinical Imaging market study presents recent market news and developments including new product launches, mergers, acquisitions, expansions, product approvals, and other updates in the industry.

Optical Preclinical Imaging Market Report Scope

Parameters: Revenue, Volume Price

Study Period: 2023 (Base Year); 2018- 2023 (Historic Period); 2024- 2030 (Forecast Period)

Currency: USD; (Upon request, can be provided in Euro, JPY, GBP, and other Local Currency)

## Qualitative Analysis

Pricing Analysis

Value Chain Analysis

SWOT Profile

Market Dynamics- Trends, Drivers, Challenges

Porter's Five Forces Analysis

Macroeconomic Impact Analysis

Case Scenarios- Low, Base, High

## Market Segmentation:

By Product

Device

-Fluorescence

-Bioluminescence

Consumables

-Fluorescence

-Green fluorescent proteins

-Red fluorescent proteins

-Infrared dyes

-Others

-Bioluminescence

-Luciferins

-Proluciferins

-Coelenterazine

-Others

Software

By End-user

Pharma and Biotech Companies

Research Institutes

Others

Geographical Segmentation:

North America (3 markets)

Europe (6 markets)

Asia Pacific (6 markets)

Latin America (3 markets)

Middle East Africa (5 markets)

## Companies

Berthold Technologies GmbH & Co.KG

Endress+Hauser

Fujifilm Corp

LI-COR Biosciences Inc

Miltenyi Biotec

PerkinElmer Inc

Rigaku Corp

TriFoil Imaging

Vieworks Co. Ltd

Vilber Smart Imaging Ltd

Formats Available: Excel, PDF, and PPT



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