

# **Global Optical Imaging Systems Market Size study, by Technology (Photoacoustic Tomography, Optical Coherence Tomography, Hyperspectral Imaging, Near-infrared Spectroscopy) by Product (Imaging Systems, Optical, Spectral, Optical Imaging Software, Illumination Systems, Others) by Application (Pathological, Intraoperative) by End-use (Research Labs, Hospitals & Clinics, Pharmaceutical and Biotechnological Companies) by Therapeutic Area (Ophthalmology, Cardiology, Oncology, Dermatology, Neurology) and Regional Forecasts 2022-2028**

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## **Abstracts**

Global Optical Imaging Systems Market is valued approximately USD 1.80 billion in 2021 and is anticipated to grow with a healthy growth rate of more than 12.9% over the forecast period 2022-2028. Optical imaging has the ability to distinguish between soft tissues and the damaged tissues. In the medical diagnosis sector, optical imaging's capacity to distinguish between healthy and infectious tissues is providing a big opportunity. Optical imaging systems have a lot of potential in the healthcare sector for diagnosis, illness prevention, and treatment. The market is being driven by a growing number of applications, a growing preference for noninvasive technologies, and an increase in the prevalence of chronic diseases and eye conditions. As a result of the growing demand for effective solutions and a focus on disease early detection, optical imaging system sales are expected to skyrocket. For example, the optical society reported in May 2019 that researchers developed a novel small, fiber-based image spectrometer for remote sensing that can collect 30,000 sampling points with more than

60 wavelengths apiece. This detailed spectral information, paired with the great spatial resolution, provides vital insight into a scene's or sample's chemical composition. The new spectrometer captures spectral data in real time, without the need for scanning. This enables it to photograph objects that change rapidly, such as moving targets or changing imaging settings. The growth of this market is being fueled by factors such as the ageing population, increased research and development activities in the life sciences sector, and increased applications of optical imaging techniques in drug discovery processes and preclinical research. Another key reason driving the market's growth is an increase in the prevalence of eye illnesses. Optical imaging systems are used by ophthalmologists to diagnose eye problems. As a result, an increase in the prevalence of eye illnesses is leading to an increase in the patient pool, which is driving optical imaging system sales. However, the market's growth would be hampered by high instrument costs, stringent regulatory approval procedures, a scarcity of skilled operators, and insufficient reimbursements for optical imaging operations over the forecast period of 2022-2028.

The key regions considered for the global Optical Imaging Systems Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. North America had the highest revenue share. The availability of skilled individuals, a well-developed research infrastructure, and government measures to foster technological innovation in the industry by offering investments and money are all contributing to the market's growth in this region. Furthermore, the region's market growth is predicted to be boosted by speedier acceptance of technologically improved products. Over the forecast period, Asia Pacific is expected to have the highest CAGR. This is due to the low cost of doing research, favourable regulatory requirements, and the expanding senior population, which is particularly vulnerable to chronic illness development.

Major market player included in this report are:

St. Jude Medical Inc.

PerkinElmer, Inc.

Carl Zeiss Meditec AG

Koninklijke Philips

Topcon Corporation

Bioptigen Inc.

Canon, Inc.

Heidelberg Engineering, Inc.

Optovue Inc.

Headwall Photonics, Inc.

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

Photoacoustic Tomography

Optical Coherence Tomography

Hyperspectral Imaging

Near-infrared Spectroscopy

By Product:

Imaging Systems

Optical

Spectral

Optical Imaging Software

Illumination Systems

Others

By Application:

Pathological

Intraoperative

By End-use:

Research Labs

Hospitals & Clinics

Pharmaceutical and Biotechnological Companies

By Therapeutic Area:

Ophthalmology

Cardiology

Oncology

Dermatology

Neurology

By Region:

North America

U.S.

Canada

Europe  
UK  
Germany  
France  
Spain  
Italy  
ROE

Asia Pacific  
China  
India  
Japan  
Australia  
South Korea  
RoAPAC  
Latin America  
Brazil  
Mexico  
Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2018, 2019, 2020

Base year – 2021

Forecast period – 2022 to 2028

Target Audience of the Global Optical Imaging Systems Market in Market Study:

Key Consulting Companies & Advisors  
Large, medium-sized, and small enterprises  
Venture capitalists  
Value-Added Resellers (VARs)  
Third-party knowledge providers  
Investment bankers  
Investors

## Contents

### CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Global & Segmental Market Estimates & Forecasts, 2020-2028 (USD Billion)
  - 1.2.1. Optical Imaging Systems Market, by Region, 2020-2028 (USD Billion)
  - 1.2.2. Optical Imaging Systems Market, by Technology, 2020-2028 (USD Billion)
  - 1.2.3. Optical Imaging Systems Market, by Product, 2020-2028 (USD Billion)
  - 1.2.4. Optical Imaging Systems Market, by Application, 2020-2028 (USD Billion)
  - 1.2.5. Optical Imaging Systems Market, by End-use, 2020-2028 (USD Billion)
  - 1.2.6. Optical Imaging Systems Market, by Therapeutic Area, 2020-2028 (USD Billion)
- 1.3. Key Trends
- 1.4. Estimation Methodology
- 1.5. Research Assumption

### CHAPTER 2. GLOBAL OPTICAL IMAGING SYSTEMS MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
  - 2.2.1. Scope of the Study
  - 2.2.2. Industry Evolution
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

### CHAPTER 3. GLOBAL OPTICAL IMAGING SYSTEMS MARKET DYNAMICS

- 3.1. Optical Imaging Systems Market Impact Analysis (2020-2028)
  - 3.1.1. Market Drivers
    - 3.1.1.1. Increasing in the prevalence of chronic diseases and eye disorders
    - 3.1.1.2. Increasing research & development activities in the life sciences sector
  - 3.1.2. Market Challenges
    - 3.1.2.1. High costs of instruments
    - 3.1.2.2. Insufficient reimbursements for optical imaging procedures
  - 3.1.3. Market Opportunities
    - 3.1.3.1. Increasing preference for non-invasive technology
    - 3.1.3.2. Increasing applications of optical imaging techniques in drug discovery processes and preclinical research

## **CHAPTER 4. GLOBAL OPTICAL IMAGING SYSTEMS MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model (2018-2028)
- 4.2. PEST Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
- 4.3. Investment Adoption Model
- 4.4. Analyst Recommendation & Conclusion
- 4.5. Top investment opportunity
- 4.6. Top winning strategies

## **CHAPTER 5. RISK ASSESSMENT: COVID-19 IMPACT**

- 5.1.1. Assessment of the overall impact of COVID-19 on the industry
- 5.1.2. Pre COVID-19 and post COVID-19 Market scenario

## **CHAPTER 6. GLOBAL OPTICAL IMAGING SYSTEMS MARKET, BY TECHNOLOGY**

- 6.1. Market Snapshot
- 6.2. Global Optical Imaging Systems Market by Technology, Performance - Potential Analysis
- 6.3. Global Optical Imaging Systems Market Estimates & Forecasts by Technology 2018-2028 (USD Billion)
- 6.4. Optical Imaging Systems Market, Sub Segment Analysis
  - 6.4.1. Photoacoustic Tomography
  - 6.4.2. Optical Coherence Tomography
  - 6.4.3. Hyperspectral Imaging
  - 6.4.4. Near-infrared Spectroscopy

## **CHAPTER 7. GLOBAL OPTICAL IMAGING SYSTEMS MARKET, BY PRODUCT**

- 7.1. Market Snapshot
- 7.2. Global Optical Imaging Systems Market by Product, Performance - Potential Analysis
- 7.3. Global Optical Imaging Systems Market Estimates & Forecasts by Product 2018-2028 (USD Billion)
- 7.4. Optical Imaging Systems Market, Sub Segment Analysis
  - 7.4.1. Imaging Systems
  - 7.4.2. Optical
  - 7.4.3. Spectral
  - 7.4.4. Optical Imaging Software
  - 7.4.5. Illumination Systems
  - 7.4.6. Others

## **CHAPTER 8. GLOBAL OPTICAL IMAGING SYSTEMS MARKET, BY APPLICATION**

- 8.1. Market Snapshot
- 8.2. Global Optical Imaging Systems Market by Application, Performance - Potential Analysis
- 8.3. Global Optical Imaging Systems Market Estimates & Forecasts by Application 2018-2028 (USD Billion)
- 8.4. Optical Imaging Systems Market, Sub Segment Analysis
  - 8.4.1. Pathological
  - 8.4.2. Intraoperative

## **CHAPTER 9. GLOBAL OPTICAL IMAGING SYSTEMS MARKET, BY END-USE**

- 9.1. Market Snapshot
- 9.2. Global Optical Imaging Systems Market by End-use, Performance - Potential Analysis
- 9.3. Global Optical Imaging Systems Market Estimates & Forecasts by End-use 2018-2028 (USD Billion)
- 9.4. Optical Imaging Systems Market, Sub Segment Analysis
  - 9.4.1. Research Labs
  - 9.4.2. Hospitals & Clinics
  - 9.4.3. Pharmaceutical and Biotechnological Companies

## **CHAPTER 10. GLOBAL OPTICAL IMAGING SYSTEMS MARKET, BY**

## **THERAPEUTIC AREA**

- 10.1. Market Snapshot
- 10.2. Global Optical Imaging Systems Market by Therapeutic Area, Performance - Potential Analysis
- 10.3. Global Optical Imaging Systems Market Estimates & Forecasts by Therapeutic Area 2018-2028 (USD Billion)
- 10.4. Optical Imaging Systems Market, Sub Segment Analysis
  - 10.4.1. Ophthalmology
  - 10.4.2. Cardiology
  - 10.4.3. Oncology
  - 10.4.4. Dermatology
  - 10.4.5. Neurology

## **CHAPTER 11. GLOBAL OPTICAL IMAGING SYSTEMS MARKET, REGIONAL ANALYSIS**

- 11.1. Optical Imaging Systems Market, Regional Market Snapshot
- 11.2. North America Optical Imaging Systems Market
  - 11.2.1. U.S. Optical Imaging Systems Market
    - 11.2.1.1. Technology breakdown estimates & forecasts, 2018-2028
    - 11.2.1.2. Product breakdown estimates & forecasts, 2018-2028
    - 11.2.1.3. Application breakdown estimates & forecasts, 2018-2028
    - 11.2.1.4. End-use breakdown estimates & forecasts, 2018-2028
    - 11.2.1.5. Therapeutic Area breakdown estimates & forecasts, 2018-2028
  - 11.2.2. Canada Optical Imaging Systems Market
- 11.3. Europe Optical Imaging Systems Market Snapshot
  - 11.3.1. U.K. Optical Imaging Systems Market
  - 11.3.2. Germany Optical Imaging Systems Market
  - 11.3.3. France Optical Imaging Systems Market
  - 11.3.4. Spain Optical Imaging Systems Market
  - 11.3.5. Italy Optical Imaging Systems Market
  - 11.3.6. Rest of Europe Optical Imaging Systems Market
- 11.4. Asia-Pacific Optical Imaging Systems Market Snapshot
  - 11.4.1. China Optical Imaging Systems Market
  - 11.4.2. India Optical Imaging Systems Market
  - 11.4.3. Japan Optical Imaging Systems Market
  - 11.4.4. Australia Optical Imaging Systems Market
  - 11.4.5. South Korea Optical Imaging Systems Market



- 11.4.6. Rest of Asia Pacific Optical Imaging Systems Market
- 11.5. Latin America Optical Imaging Systems Market Snapshot
  - 11.5.1. Brazil Optical Imaging Systems Market
  - 11.5.2. Mexico Optical Imaging Systems Market
- 11.6. Rest of The World Optical Imaging Systems Market

## **CHAPTER 12. COMPETITIVE INTELLIGENCE**

- 12.1. Top Market Strategies
- 12.2. Company Profiles
  - 12.2.1. St. Jude Medical Inc.
    - 12.2.1.1. Key Information
    - 12.2.1.2. Overview
    - 12.2.1.3. Financial (Subject to Data Availability)
    - 12.2.1.4. Product Summary
    - 12.2.1.5. Recent Developments
  - 12.2.2. PerkinElmer, Inc.
  - 12.2.3. Carl Zeiss Meditec AG
  - 12.2.4. Koninklijke Philips
  - 12.2.5. Topcon Corporation
  - 12.2.6. Bioptigen Inc.
  - 12.2.7. Canon, Inc.
  - 12.2.8. Heidelberg Engineering, Inc.
  - 12.2.9. Optovue Inc.
  - 12.2.10. Headwall Photonics, Inc.

## **CHAPTER 13. RESEARCH PROCESS**

- 13.1. Research Process
  - 13.1.1. Data Mining
  - 13.1.2. Analysis
  - 13.1.3. Market Estimation
  - 13.1.4. Validation
  - 13.1.5. Publishing
- 13.2. Research Attributes
- 13.3. Research Assumption

## List Of Tables

### LIST OF TABLES

- TABLE 1. Global Optical Imaging Systems Market, report scope
- TABLE 2. Global Optical Imaging Systems Market estimates & forecasts by Region 2018-2028 (USD Billion)
- TABLE 3. Global Optical Imaging Systems Market estimates & forecasts by Technology 2018-2028 (USD Billion)
- TABLE 4. Global Optical Imaging Systems Market estimates & forecasts by Product 2018-2028 (USD Billion)
- TABLE 5. Global Optical Imaging Systems Market estimates & forecasts by Application 2018-2028 (USD Billion)
- TABLE 6. Global Optical Imaging Systems Market estimates & forecasts by End-use 2018-2028 (USD Billion)
- TABLE 7. Global Optical Imaging Systems Market estimates & forecasts by Therapeutic Area 2018-2028 (USD Billion)
- TABLE 8. Global Optical Imaging Systems Market by segment, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 9. Global Optical Imaging Systems Market by region, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 10. Global Optical Imaging Systems Market by segment, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 11. Global Optical Imaging Systems Market by region, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 12. Global Optical Imaging Systems Market by segment, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 13. Global Optical Imaging Systems Market by region, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 14. Global Optical Imaging Systems Market by segment, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 15. Global Optical Imaging Systems Market by region, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 16. Global Optical Imaging Systems Market by segment, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 17. Global Optical Imaging Systems Market by region, estimates & forecasts, 2018-2028 (USD Billion)
- TABLE 18. U.S. Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 19. U.S. Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 20. U.S. Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 21. Canada Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 22. Canada Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 23. Canada Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 24. UK Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 25. UK Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 26. UK Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 27. Germany Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 28. Germany Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 29. Germany Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 30. RoE Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 31. RoE Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 32. RoE Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 33. China Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 34. China Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 35. China Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 36. India Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 37. India Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 38. India Optical Imaging Systems Market estimates & forecasts by segment

2018-2028 (USD Billion)

TABLE 39. Japan Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 40. Japan Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 41. Japan Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 42. RoAPAC Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 43. RoAPAC Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 44. RoAPAC Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 45. Brazil Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 46. Brazil Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 47. Brazil Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 48. Mexico Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 49. Mexico Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 50. Mexico Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 51. RoLA Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 52. RoLA Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 53. RoLA Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 54. Row Optical Imaging Systems Market estimates & forecasts, 2018-2028 (USD Billion)

TABLE 55. Row Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 56. Row Optical Imaging Systems Market estimates & forecasts by segment 2018-2028 (USD Billion)

TABLE 57. List of secondary sources, used in the study of global Optical Imaging Systems Market

TABLE 58. List of primary sources, used in the study of global Optical Imaging Systems Market

TABLE 59. Years considered for the study

TABLE 60. Exchange rates considered

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Optical Imaging Systems Market, research methodology
- FIG 2. Global Optical Imaging Systems Market, Market estimation techniques
- FIG 3. Global Market size estimates & forecast methods
- FIG 4. Global Optical Imaging Systems Market, key trends 2021
- FIG 5. Global Optical Imaging Systems Market, growth prospects 2022-2028
- FIG 6. Global Optical Imaging Systems Market, porters 5 force model
- FIG 7. Global Optical Imaging Systems Market, pest analysis
- FIG 8. Global Optical Imaging Systems Market, value chain analysis
- FIG 9. Global Optical Imaging Systems Market by segment, 2018 & 2028 (USD Billion)
- FIG 10. Global Optical Imaging Systems Market by segment, 2018 & 2028 (USD Billion)
- FIG 11. Global Optical Imaging Systems Market by segment, 2018 & 2028 (USD Billion)
- FIG 12. Global Optical Imaging Systems Market by segment, 2018 & 2028 (USD Billion)
- FIG 13. Global Optical Imaging Systems Market by segment, 2018 & 2028 (USD Billion)
- FIG 14. Global Optical Imaging Systems Market, regional snapshot 2018 & 2028
- FIG 15. North America Optical Imaging Systems Market 2018 & 2028 (USD Billion)
- FIG 16. Europe Optical Imaging Systems Market 2018 & 2028 (USD Billion)
- FIG 17. Asia pacific Optical Imaging Systems Market 2018 & 2028 (USD Billion)
- FIG 18. Latin America Optical Imaging Systems Market 2018 & 2028 (USD Billion)
- FIG 19. Global Optical Imaging Systems Market, company Market share analysis (2021)

## I would like to order

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