

Retinal Laser Photocoagulation Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Retinal Laser Photocoagulation Market Summary

Introduction

Retinal laser photocoagulation devices, including diode, green, yellow, and other lasers, treat diabetic retinopathy (DR, 26.43% of 537 million diabetics) and age-related macular degeneration (AMD). With 9.6 million DR cases in the U.S. and 3 million in India, demand is surging. Innovations in micro-pulse lasers, AI-integrated imaging, and portable devices improve outcomes. Aging populations (2.1 billion by 2050) and rising diabetes (784 million by 2045) drive growth. The global market is projected to reach between USD 160 million and USD 250 million in 2025, with a CAGR of 3.6% to 6.5% through 2030.

Regional Analysis

North America: The U.S. leads with high DR prevalence, while Canada focuses on AMD care.

Europe: Germany, France, and the UK drive demand due to aging populations.

Asia Pacific: India sees growth from DR cases, while Japan emphasizes precision lasers.

Rest of the World: Brazil expands eye care, and Nigeria boosts retinal treatment.

Application Analysis

Hospitals: Expected growth of 3.7%-6.6%, driven by complex cases. Trends focus on AI integration.

Ambulatory Surgical Centers: Projected growth of 3.6%-6.5%, linked to outpatient care. Developments emphasize portability.

Ophthalmic Clinics: Anticipated growth of 3.8%-6.7%, suited for routine treatments. Advances prioritize automation.

Type Analysis

Diode Laser: Expected growth of 3.6%-6.5%, valued for versatility. Trends highlight micro-pulse tech.

Green Laser: Projected growth of 3.7%-6.6%, key for precision. Advances focus on multi-wavelength systems.

Yellow Laser: Anticipated growth of 3.8%-6.7%, suited for specific conditions. Innovations prioritize targeting accuracy.

Others: Expected growth of 3.5%-6.4%, covering specialties. Trends emphasize portability.

Key Market Players

Leading firms include Alcon, advancing retinal solutions; Carl Zeiss, enhancing imaging; Quantel Medical, launching Vitra 2; Lumenis, scaling laser tech; Iridex Corp, focusing on micro-pulse; Nidek, boosting precision; Topcon, integrating AI; Bausch & Lomb, targeting AMD; and Meridian Medical Group, offering Merilas lasers.

Porter's Five Forces Analysis

? Threat of New Entrants: Low, due to high R&D and regulatory barriers.

? Threat of Substitutes: Moderate, as alternative therapies compete, but lasers are standard for DR/AMD.

? Bargaining Power of Buyers: Moderate, with clinics seeking advanced, cost-effective lasers, though clinical needs limit options.

? Bargaining Power of Suppliers: Moderate, with specialized component providers holding influence.

? Competitive Rivalry: High, with competition on precision, portability, and cost.

Market Opportunities and Challenges

Opportunities:

? Rising DR (26.43% of diabetics) and aging populations drive demand.

? Micro-pulse lasers and AI boost adoption, while Asia's eye care growth enhances usage.

Challenges:

? High costs limit access in low-income regions.

? Regulatory delays slow innovation.

? Skilled ophthalmologist shortages restrict expansion.

Market News

? In May 2023, Norlase received FDA clearance for its ECHO Green Pattern Laser.

? In May 2023, Norlase secured USD 11 million in funding from West Hill Capital.

? In July 2023, Alkem Laboratories launched retinal laser products in India.

? In February 2023, Meridian AG's Merilas series received FDA approval.

Contents

CHAPTER 1 EXECUTIVE SUMMARY

CHAPTER 2 ABBREVIATION AND ACRONYMS

CHAPTER 3 PREFACE

3.1 Research Scope

3.2 Research Sources

3.2.1 Data Sources

3.2.2 Assumptions

3.3 Research Method

Chapter Four Market Landscape

4.1 Market Overview

4.2 Classification/Types

4.3 Application/End Users

CHAPTER 5 MARKET TREND ANALYSIS

5.1 Introduction

5.2 Drivers

5.3 Restraints

5.4 Opportunities

5.5 Threats

CHAPTER 6 INDUSTRY CHAIN ANALYSIS

6.1 Upstream/Suppliers Analysis

6.2 Retinal Laser Photocoagulation Analysis

6.2.1 Technology Analysis

6.2.2 Cost Analysis

6.2.3 Market Channel Analysis

6.3 Downstream Buyers/End Users

CHAPTER 7 LATEST MARKET DYNAMICS

7.1 Latest News

7.2 Merger and Acquisition

7.3 Planned/Future Project

7.4 Policy Dynamics

CHAPTER 8 HISTORICAL AND FORECAST RETINAL LASER PHOTOCOAGULATION MARKET IN NORTH AMERICA (2020-2030)

8.1 Retinal Laser Photocoagulation Market Size

8.2 Retinal Laser Photocoagulation Market by End Use

8.3 Competition by Players/Suppliers

8.4 Retinal Laser Photocoagulation Market Size by Type

8.5 Key Countries Analysis

8.5.1 United States

8.5.2 Canada

8.5.3 Mexico

CHAPTER 9 HISTORICAL AND FORECAST RETINAL LASER PHOTOCOAGULATION MARKET IN SOUTH AMERICA (2020-2030)

9.1 Retinal Laser Photocoagulation Market Size

9.2 Retinal Laser Photocoagulation Market by End Use

9.3 Competition by Players/Suppliers

9.4 Retinal Laser Photocoagulation Market Size by Type

9.5 Key Countries Analysis

9.5.1 Brazil

9.5.2 Argentina

9.5.3 Chile

9.5.4 Peru

CHAPTER 10 HISTORICAL AND FORECAST RETINAL LASER PHOTOCOAGULATION MARKET IN ASIA & PACIFIC (2020-2030)

10.1 Retinal Laser Photocoagulation Market Size

10.2 Retinal Laser Photocoagulation Market by End Use

10.3 Competition by Players/Suppliers

10.4 Retinal Laser Photocoagulation Market Size by Type

10.5 Key Countries Analysis

10.5.1 China

10.5.2 India

10.5.3 Japan

- 10.5.4 South Korea
- 10.5.5 Southeast Asia
- 10.5.6 Australia

CHAPTER 11 HISTORICAL AND FORECAST RETINAL LASER PHOTOCOAGULATION MARKET IN EUROPE (2020-2030)

- 11.1 Retinal Laser Photocoagulation Market Size
- 11.2 Retinal Laser Photocoagulation Market by End Use
- 11.3 Competition by Players/Suppliers
- 11.4 Retinal Laser Photocoagulation Market Size by Type
- 11.5 Key Countries Analysis
 - 11.5.1 Germany
 - 11.5.2 France
 - 11.5.3 United Kingdom
 - 11.5.4 Italy
 - 11.5.5 Spain
 - 11.5.6 Belgium
 - 11.5.7 Netherlands
 - 11.5.8 Austria
 - 11.5.9 Poland
 - 11.5.10 Russia

CHAPTER 12 HISTORICAL AND FORECAST RETINAL LASER PHOTOCOAGULATION MARKET IN MEA (2020-2030)

- 12.1 Retinal Laser Photocoagulation Market Size
- 12.2 Retinal Laser Photocoagulation Market by End Use
- 12.3 Competition by Players/Suppliers
- 12.4 Retinal Laser Photocoagulation Market Size by Type
- 12.5 Key Countries Analysis
 - 12.5.1 Egypt
 - 12.5.2 Israel
 - 12.5.3 South Africa
 - 12.5.4 Gulf Cooperation Council Countries
 - 12.5.5 Turkey

CHAPTER 13 SUMMARY FOR GLOBAL RETINAL LASER PHOTOCOAGULATION MARKET (2020-2025)

- 13.1 Retinal Laser Photocoagulation Market Size
- 13.2 Retinal Laser Photocoagulation Market by End Use
- 13.3 Competition by Players/Suppliers
- 13.4 Retinal Laser Photocoagulation Market Size by Type

CHAPTER 14 GLOBAL RETINAL LASER PHOTOCOAGULATION MARKET FORECAST (2025-2030)

- 14.1 Retinal Laser Photocoagulation Market Size Forecast
- 14.2 Retinal Laser Photocoagulation Application Forecast
- 14.3 Competition by Players/Suppliers
- 14.4 Retinal Laser Photocoagulation Type Forecast

CHAPTER 15 ANALYSIS OF GLOBAL KEY VENDORS

- 15.1 Alcon
 - 15.1.1 Company Profile
 - 15.1.2 Main Business and Retinal Laser Photocoagulation Information
 - 15.1.3 SWOT Analysis of Alcon
 - 15.1.4 Alcon Retinal Laser Photocoagulation Revenue, Gross Margin and Market Share (2020-2025)
- 15.2 Carl Zeiss
 - 15.2.1 Company Profile
 - 15.2.2 Main Business and Retinal Laser Photocoagulation Information
 - 15.2.3 SWOT Analysis of Carl Zeiss
 - 15.2.4 Carl Zeiss Retinal Laser Photocoagulation Revenue, Gross Margin and Market Share (2020-2025)
- 15.3 Quantel Medical
 - 15.3.1 Company Profile
 - 15.3.2 Main Business and Retinal Laser Photocoagulation Information
 - 15.3.3 SWOT Analysis of Quantel Medical
 - 15.3.4 Quantel Medical Retinal Laser Photocoagulation Revenue, Gross Margin and Market Share (2020-2025)
- 15.4 Lumenis
 - 15.4.1 Company Profile
 - 15.4.2 Main Business and Retinal Laser Photocoagulation Information
 - 15.4.3 SWOT Analysis of Lumenis
 - 15.4.4 Lumenis Retinal Laser Photocoagulation Revenue, Gross Margin and Market Share (2020-2025)

Share (2020-2025)

15.5 Iridex Corp

15.5.1 Company Profile

15.5.2 Main Business and Retinal Laser Photocoagulation Information

15.5.3 SWOT Analysis of Iridex Corp

15.5.4 Iridex Corp Retinal Laser Photocoagulation Revenue, Gross Margin and Market

Share (2020-2025)

15.6 Nidek

15.6.1 Company Profile

15.6.2 Main Business and Retinal Laser Photocoagulation Information

15.6.3 SWOT Analysis of Nidek

15.6.4 Nidek Retinal Laser Photocoagulation Revenue, Gross Margin and Market

Share (2020-2025)

Please ask for sample pages for full companies list

Tables and Figures

Table Abbreviation and Acronyms

Table Research Scope of Retinal Laser Photocoagulation Report

Table Data Sources of Retinal Laser Photocoagulation Report

Table Major Assumptions of Retinal Laser Photocoagulation Report

Figure Market Size Estimated Method

Figure Major Forecasting Factors

Figure Retinal Laser Photocoagulation Picture

Table Retinal Laser Photocoagulation Classification

Table Retinal Laser Photocoagulation Applications

Table Drivers of Retinal Laser Photocoagulation Market

Table Restraints of Retinal Laser Photocoagulation Market

Table Opportunities of Retinal Laser Photocoagulation Market

Table Threats of Retinal Laser Photocoagulation Market

Table Covid-19 Impact For Retinal Laser Photocoagulation Market

Table Raw Materials Suppliers

Table Different Production Methods of Retinal Laser Photocoagulation

Table Cost Structure Analysis of Retinal Laser Photocoagulation

Table Key End Users

Table Latest News of Retinal Laser Photocoagulation Market

Table Merger and Acquisition

Table Planned/Future Project of Retinal Laser Photocoagulation Market

Table Policy of Retinal Laser Photocoagulation Market

Table 2020-2030 North America Retinal Laser Photocoagulation Market Size

Figure 2020-2030 North America Retinal Laser Photocoagulation Market Size and

CAGR

Table 2020-2030 North America Retinal Laser Photocoagulation Market Size by Application

Table 2020-2025 North America Retinal Laser Photocoagulation Key Players Revenue

Table 2020-2025 North America Retinal Laser Photocoagulation Key Players Market Share

Table 2020-2030 North America Retinal Laser Photocoagulation Market Size by Type

Table 2020-2030 United States Retinal Laser Photocoagulation Market Size

Table 2020-2030 Canada Retinal Laser Photocoagulation Market Size

Table 2020-2030 Mexico Retinal Laser Photocoagulation Market Size

Table 2020-2030 South America Retinal Laser Photocoagulation Market Size

Figure 2020-2030 South America Retinal Laser Photocoagulation Market Size and CAGR

Table 2020-2030 South America Retinal Laser Photocoagulation Market Size by Application

Table 2020-2025 South America Retinal Laser Photocoagulation Key Players Revenue

Table 2020-2025 South America Retinal Laser Photocoagulation Key Players Market Share

Table 2020-2030 South America Retinal Laser Photocoagulation Market Size by Type

Table 2020-2030 Brazil Retinal Laser Photocoagulation Market Size

Table 2020-2030 Argentina Retinal Laser Photocoagulation Market Size

Table 2020-2030 Chile Retinal Laser Photocoagulation Market Size

Table 2020-2030 Peru Retinal Laser Photocoagulation Market Size

Table 2020-2030 Asia & Pacific Retinal Laser Photocoagulation Market Size

Figure 2020-2030 Asia & Pacific Retinal Laser Photocoagulation Market Size and CAGR

Table 2020-2030 Asia & Pacific Retinal Laser Photocoagulation Market Size by Application

Table 2020-2025 Asia & Pacific Retinal Laser Photocoagulation Key Players Revenue

Table 2020-2025 Asia & Pacific Retinal Laser Photocoagulation Key Players Market Share

Table 2020-2030 Asia & Pacific Retinal Laser Photocoagulation Market Size by Type

Table 2020-2030 China Retinal Laser Photocoagulation Market Size

Table 2020-2030 India Retinal Laser Photocoagulation Market Size

Table 2020-2030 Japan Retinal Laser Photocoagulation Market Size

Table 2020-2030 South Korea Retinal Laser Photocoagulation Market Size

Table 2020-2030 Southeast Asia Retinal Laser Photocoagulation Market Size

Table 2020-2030 Australia Retinal Laser Photocoagulation Market Size

Table 2020-2030 Europe Retinal Laser Photocoagulation Market Size

Figure 2020-2030 Europe Retinal Laser Photocoagulation Market Size and CAGR

Table 2020-2030 Europe Retinal Laser Photocoagulation Market Size by Application

Table 2020-2025 Europe Retinal Laser Photocoagulation Key Players Revenue

Table 2020-2025 Europe Retinal Laser Photocoagulation Key Players Market Share

Table 2020-2030 Europe Retinal Laser Photocoagulation Market Size by Type

Table 2020-2030 Germany Retinal Laser Photocoagulation Market Size

Table 2020-2030 France Retinal Laser Photocoagulation Market Size

Table 2020-2030 United Kingdom Retinal Laser Photocoagulation Market Size

Table 2020-2030 Italy Retinal Laser Photocoagulation Market Size

Table 2020-2030 Spain Retinal Laser Photocoagulation Market Size

Table 2020-2030 Belgium Retinal Laser Photocoagulation Market Size

Table 2020-2030 Netherlands Retinal Laser Photocoagulation Market Size

Table 2020-2030 Austria Retinal Laser Photocoagulation Market Size

Table 2020-2030 Poland Retinal Laser Photocoagulation Market Size

Table 2020-2030 Russia Retinal Laser Photocoagulation Market Size

Table 2020-2030 MEA Retinal Laser Photocoagulation Market Size

Figure 2020-2030 MEA Retinal Laser Photocoagulation Market Size and CAGR

Table 2020-2030 MEA Retinal Laser Photocoagulation Market Size by Application

Table 2020-2025 MEA Retinal Laser Photocoagulation Key Players Revenue

Table 2020-2025 MEA Retinal Laser Photocoagulation Key Players Market Share

Table 2020-2030 MEA Retinal Laser Photocoagulation Market Size by Type

Table 2020-2030 Egypt Retinal Laser Photocoagulation Market Size

Table 2020-2030 Israel Retinal Laser Photocoagulation Market Size

Table 2020-2030 South Africa Retinal Laser Photocoagulation Market Size

Table 2020-2030 Gulf Cooperation Council Countries Retinal Laser Photocoagulation Market Size

Table 2020-2030 Turkey Retinal Laser Photocoagulation Market Size

Table 2020-2025 Global Retinal Laser Photocoagulation Market Size by Region

Table 2020-2025 Global Retinal Laser Photocoagulation Market Size Share by Region

Table 2020-2025 Global Retinal Laser Photocoagulation Market Size by Application

Table 2020-2025 Global Retinal Laser Photocoagulation Market Share by Application

Table 2020-2025 Global Retinal Laser Photocoagulation Key Vendors Revenue

Figure 2020-2025 Global Retinal Laser Photocoagulation Market Size and Growth Rate

Table 2020-2025 Global Retinal Laser Photocoagulation Key Vendors Market Share

Table 2020-2025 Global Retinal Laser Photocoagulation Market Size by Type

Table 2020-2025 Global Retinal Laser Photocoagulation Market Share by Type

Table 2025-2030 Global Retinal Laser Photocoagulation Market Size by Region

Table 2025-2030 Global Retinal Laser Photocoagulation Market Size Share by Region

Table 2025-2030 Global Retinal Laser Photocoagulation Market Size by Application

Table 2025-2030 Global Retinal Laser Photocoagulation Market Share by Application
Table 2025-2030 Global Retinal Laser Photocoagulation Key Vendors Revenue
Figure 2025-2030 Global Retinal Laser Photocoagulation Market Size and Growth Rate
Table 2025-2030 Global Retinal Laser Photocoagulation Key Vendors Market Share
Table 2025-2030 Global Retinal Laser Photocoagulation Market Size by Type
Table 2025-2030 Retinal Laser Photocoagulation Global Market Share by Type

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