

Global Infrared Picosecond Laser Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Picosecond Laser market size was valued at US\$ 518 million in 2024 and is forecast to a readjusted size of USD 656 million by 2031 with a CAGR of 3.5% during review period.

Infrared picosecond laser is a laser that emits ultrashort pulse light in the infrared band (usually in the range of 700 nm to 2500 nm), with a pulse duration in the picosecond range (10⁻¹² seconds). It has the characteristics of high peak power, short pulse width and high repetition rate, and is widely used in precision machining, bio-imaging, spectral analysis and nonlinear optics, especially in scenes requiring high temporal resolution and low thermal impact.

This report is a detailed and comprehensive analysis for global Infrared Picosecond Laser market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Infrared Picosecond Laser market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031
Global Infrared Picosecond Laser market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Infrared Picosecond Laser market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Infrared Picosecond Laser market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Infrared Picosecond Laser

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Infrared Picosecond Laser market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include IPG Photonics, MKS Instruments, Trumpf, Coherent, Light Conversion, NKT Photonics, Wuhan Qizhi Laser Technology, Guangdong Guozhi Laser Technology, Wuhan Huaray Precision Laser, PulseX Laser Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Infrared Picosecond Laser market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Solid-State Lasers

Fiber Lasers

Semiconductor Lasers

Market segment by Application

Medical Industry

Communications Industry

Aerospace

Others

Major players covered

IPG Photonics

MKS Instruments

Trumpf

Coherent

Light Conversion

NKT Photonics

Wuhan Qizhi Laser Technology

Guangdong Guozhi Laser Technology

Wuhan Huaray Precision Laser

PulseX Laser Technology

Anhui Huachuang Hongdu Optoelectronics Technology

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Infrared Picosecond Laser product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared Picosecond Laser, with price, sales quantity, revenue, and global market share of Infrared Picosecond Laser from 2020 to 2025.

Chapter 3, the Infrared Picosecond Laser competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Infrared Picosecond Laser breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Infrared Picosecond Laser market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Infrared Picosecond Laser.

Chapter 14 and 15, to describe Infrared Picosecond Laser sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Infrared Picosecond Laser Consumption Value by Type: 2020 Versus 2024 Versus 2031

1.3.2 Solid-State Lasers

1.3.3 Fiber Lasers

1.3.4 Semiconductor Lasers

1.4 Market Analysis by Application

1.4.1 Overview: Global Infrared Picosecond Laser Consumption Value by Application: 2020 Versus 2024 Versus 2031

1.4.2 Medical Industry

1.4.3 Communications Industry

1.4.4 Aerospace

1.4.5 Others

1.5 Global Infrared Picosecond Laser Market Size & Forecast

1.5.1 Global Infrared Picosecond Laser Consumption Value (2020 & 2024 & 2031)

1.5.2 Global Infrared Picosecond Laser Sales Quantity (2020-2031)

1.5.3 Global Infrared Picosecond Laser Average Price (2020-2031)

2 MANUFACTURERS PROFILES

2.1 IPG Photonics

2.1.1 IPG Photonics Details

2.1.2 IPG Photonics Major Business

2.1.3 IPG Photonics Infrared Picosecond Laser Product and Services

2.1.4 IPG Photonics Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.1.5 IPG Photonics Recent Developments/Updates

2.2 MKS Instruments

2.2.1 MKS Instruments Details

2.2.2 MKS Instruments Major Business

2.2.3 MKS Instruments Infrared Picosecond Laser Product and Services

2.2.4 MKS Instruments Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

- 2.2.5 MKS Instruments Recent Developments/Updates
- 2.3 Trumpf
 - 2.3.1 Trumpf Details
 - 2.3.2 Trumpf Major Business
 - 2.3.3 Trumpf Infrared Picosecond Laser Product and Services
 - 2.3.4 Trumpf Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.3.5 Trumpf Recent Developments/Updates
- 2.4 Coherent
 - 2.4.1 Coherent Details
 - 2.4.2 Coherent Major Business
 - 2.4.3 Coherent Infrared Picosecond Laser Product and Services
 - 2.4.4 Coherent Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.4.5 Coherent Recent Developments/Updates
- 2.5 Light Conversion
 - 2.5.1 Light Conversion Details
 - 2.5.2 Light Conversion Major Business
 - 2.5.3 Light Conversion Infrared Picosecond Laser Product and Services
 - 2.5.4 Light Conversion Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.5.5 Light Conversion Recent Developments/Updates
- 2.6 NKT Photonics
 - 2.6.1 NKT Photonics Details
 - 2.6.2 NKT Photonics Major Business
 - 2.6.3 NKT Photonics Infrared Picosecond Laser Product and Services
 - 2.6.4 NKT Photonics Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.6.5 NKT Photonics Recent Developments/Updates
- 2.7 Wuhan Qizhi Laser Technology
 - 2.7.1 Wuhan Qizhi Laser Technology Details
 - 2.7.2 Wuhan Qizhi Laser Technology Major Business
 - 2.7.3 Wuhan Qizhi Laser Technology Infrared Picosecond Laser Product and Services
 - 2.7.4 Wuhan Qizhi Laser Technology Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)
 - 2.7.5 Wuhan Qizhi Laser Technology Recent Developments/Updates
- 2.8 Guangdong Guozhi Laser Technology
 - 2.8.1 Guangdong Guozhi Laser Technology Details
 - 2.8.2 Guangdong Guozhi Laser Technology Major Business

2.8.3 Guangdong Guozhi Laser Technology Infrared Picosecond Laser Product and Services

2.8.4 Guangdong Guozhi Laser Technology Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.8.5 Guangdong Guozhi Laser Technology Recent Developments/Updates

2.9 Wuhan Huaray Precision Laser

2.9.1 Wuhan Huaray Precision Laser Details

2.9.2 Wuhan Huaray Precision Laser Major Business

2.9.3 Wuhan Huaray Precision Laser Infrared Picosecond Laser Product and Services

2.9.4 Wuhan Huaray Precision Laser Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.9.5 Wuhan Huaray Precision Laser Recent Developments/Updates

2.10 PulseX Laser Technology

2.10.1 PulseX Laser Technology Details

2.10.2 PulseX Laser Technology Major Business

2.10.3 PulseX Laser Technology Infrared Picosecond Laser Product and Services

2.10.4 PulseX Laser Technology Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.10.5 PulseX Laser Technology Recent Developments/Updates

2.11 Anhui Huachuang Hongdu Optoelectronics Technology

2.11.1 Anhui Huachuang Hongdu Optoelectronics Technology Details

2.11.2 Anhui Huachuang Hongdu Optoelectronics Technology Major Business

2.11.3 Anhui Huachuang Hongdu Optoelectronics Technology Infrared Picosecond Laser Product and Services

2.11.4 Anhui Huachuang Hongdu Optoelectronics Technology Infrared Picosecond Laser Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2020-2025)

2.11.5 Anhui Huachuang Hongdu Optoelectronics Technology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: INFRARED PICOSECOND LASER BY MANUFACTURER

3.1 Global Infrared Picosecond Laser Sales Quantity by Manufacturer (2020-2025)

3.2 Global Infrared Picosecond Laser Revenue by Manufacturer (2020-2025)

3.3 Global Infrared Picosecond Laser Average Price by Manufacturer (2020-2025)

3.4 Market Share Analysis (2024)

3.4.1 Producer Shipments of Infrared Picosecond Laser by Manufacturer Revenue (\$MM) and Market Share (%): 2024

- 3.4.2 Top 3 Infrared Picosecond Laser Manufacturer Market Share in 2024
- 3.4.3 Top 6 Infrared Picosecond Laser Manufacturer Market Share in 2024
- 3.5 Infrared Picosecond Laser Market: Overall Company Footprint Analysis
 - 3.5.1 Infrared Picosecond Laser Market: Region Footprint
 - 3.5.2 Infrared Picosecond Laser Market: Company Product Type Footprint
 - 3.5.3 Infrared Picosecond Laser Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

- 4.1 Global Infrared Picosecond Laser Market Size by Region
 - 4.1.1 Global Infrared Picosecond Laser Sales Quantity by Region (2020-2031)
 - 4.1.2 Global Infrared Picosecond Laser Consumption Value by Region (2020-2031)
 - 4.1.3 Global Infrared Picosecond Laser Average Price by Region (2020-2031)
- 4.2 North America Infrared Picosecond Laser Consumption Value (2020-2031)
- 4.3 Europe Infrared Picosecond Laser Consumption Value (2020-2031)
- 4.4 Asia-Pacific Infrared Picosecond Laser Consumption Value (2020-2031)
- 4.5 South America Infrared Picosecond Laser Consumption Value (2020-2031)
- 4.6 Middle East & Africa Infrared Picosecond Laser Consumption Value (2020-2031)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Infrared Picosecond Laser Sales Quantity by Type (2020-2031)
- 5.2 Global Infrared Picosecond Laser Consumption Value by Type (2020-2031)
- 5.3 Global Infrared Picosecond Laser Average Price by Type (2020-2031)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Infrared Picosecond Laser Sales Quantity by Application (2020-2031)
- 6.2 Global Infrared Picosecond Laser Consumption Value by Application (2020-2031)
- 6.3 Global Infrared Picosecond Laser Average Price by Application (2020-2031)

7 NORTH AMERICA

- 7.1 North America Infrared Picosecond Laser Sales Quantity by Type (2020-2031)
- 7.2 North America Infrared Picosecond Laser Sales Quantity by Application (2020-2031)
- 7.3 North America Infrared Picosecond Laser Market Size by Country

7.3.1 North America Infrared Picosecond Laser Sales Quantity by Country (2020-2031)

7.3.2 North America Infrared Picosecond Laser Consumption Value by Country (2020-2031)

7.3.3 United States Market Size and Forecast (2020-2031)

7.3.4 Canada Market Size and Forecast (2020-2031)

7.3.5 Mexico Market Size and Forecast (2020-2031)

8 EUROPE

8.1 Europe Infrared Picosecond Laser Sales Quantity by Type (2020-2031)

8.2 Europe Infrared Picosecond Laser Sales Quantity by Application (2020-2031)

8.3 Europe Infrared Picosecond Laser Market Size by Country

8.3.1 Europe Infrared Picosecond Laser Sales Quantity by Country (2020-2031)

8.3.2 Europe Infrared Picosecond Laser Consumption Value by Country (2020-2031)

8.3.3 Germany Market Size and Forecast (2020-2031)

8.3.4 France Market Size and Forecast (2020-2031)

8.3.5 United Kingdom Market Size and Forecast (2020-2031)

8.3.6 Russia Market Size and Forecast (2020-2031)

8.3.7 Italy Market Size and Forecast (2020-2031)

9 ASIA-PACIFIC

9.1 Asia-Pacific Infrared Picosecond Laser Sales Quantity by Type (2020-2031)

9.2 Asia-Pacific Infrared Picosecond Laser Sales Quantity by Application (2020-2031)

9.3 Asia-Pacific Infrared Picosecond Laser Market Size by Region

9.3.1 Asia-Pacific Infrared Picosecond Laser Sales Quantity by Region (2020-2031)

9.3.2 Asia-Pacific Infrared Picosecond Laser Consumption Value by Region (2020-2031)

9.3.3 China Market Size and Forecast (2020-2031)

9.3.4 Japan Market Size and Forecast (2020-2031)

9.3.5 South Korea Market Size and Forecast (2020-2031)

9.3.6 India Market Size and Forecast (2020-2031)

9.3.7 Southeast Asia Market Size and Forecast (2020-2031)

9.3.8 Australia Market Size and Forecast (2020-2031)

10 SOUTH AMERICA

10.1 South America Infrared Picosecond Laser Sales Quantity by Type (2020-2031)

10.2 South America Infrared Picosecond Laser Sales Quantity by Application
(2020-2031)

10.3 South America Infrared Picosecond Laser Market Size by Country

10.3.1 South America Infrared Picosecond Laser Sales Quantity by Country
(2020-2031)

10.3.2 South America Infrared Picosecond Laser Consumption Value by Country
(2020-2031)

10.3.3 Brazil Market Size and Forecast (2020-2031)

10.3.4 Argentina Market Size and Forecast (2020-2031)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Infrared Picosecond Laser Sales Quantity by Type
(2020-2031)

11.2 Middle East & Africa Infrared Picosecond Laser Sales Quantity by Application
(2020-2031)

11.3 Middle East & Africa Infrared Picosecond Laser Market Size by Country

11.3.1 Middle East & Africa Infrared Picosecond Laser Sales Quantity by Country
(2020-2031)

11.3.2 Middle East & Africa Infrared Picosecond Laser Consumption Value by Country
(2020-2031)

11.3.3 Turkey Market Size and Forecast (2020-2031)

11.3.4 Egypt Market Size and Forecast (2020-2031)

11.3.5 Saudi Arabia Market Size and Forecast (2020-2031)

11.3.6 South Africa Market Size and Forecast (2020-2031)

12 MARKET DYNAMICS

12.1 Infrared Picosecond Laser Market Drivers

12.2 Infrared Picosecond Laser Market Restraints

12.3 Infrared Picosecond Laser Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

- 13.1 Raw Material of Infrared Picosecond Laser and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Infrared Picosecond Laser
- 13.3 Infrared Picosecond Laser Production Process
- 13.4 Industry Value Chain Analysis

14 SHIPMENTS BY DISTRIBUTION CHANNEL

- 14.1 Sales Channel
 - 14.1.1 Direct to End-User
 - 14.1.2 Distributors
- 14.2 Infrared Picosecond Laser Typical Distributors
- 14.3 Infrared Picosecond Laser Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

- 16.1 Methodology
- 16.2 Research Process and Data Source
- 16.3 Disclaimer

List Of Figures

LIST OF FIGURES

Table 1. Global Infrared Picosecond Laser Consumption Value by Type, (USD Million), 2020 & 2024 & 2031

Table 2. Global Infrared Picosecond Laser Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Table 3. IPG Photonics Basic Information, Manufacturing Base and Competitors

Table 4. IPG Photonics Major Business

Table 5. IPG Photonics Infrared Picosecond Laser Product and Services

Table 6. IPG Photonics Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 7. IPG Photonics Recent Developments/Updates

Table 8. MKS Instruments Basic Information, Manufacturing Base and Competitors

Table 9. MKS Instruments Major Business

Table 10. MKS Instruments Infrared Picosecond Laser Product and Services

Table 11. MKS Instruments Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 12. MKS Instruments Recent Developments/Updates

Table 13. Trumpf Basic Information, Manufacturing Base and Competitors

Table 14. Trumpf Major Business

Table 15. Trumpf Infrared Picosecond Laser Product and Services

Table 16. Trumpf Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 17. Trumpf Recent Developments/Updates

Table 18. Coherent Basic Information, Manufacturing Base and Competitors

Table 19. Coherent Major Business

Table 20. Coherent Infrared Picosecond Laser Product and Services

Table 21. Coherent Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 22. Coherent Recent Developments/Updates

Table 23. Light Conversion Basic Information, Manufacturing Base and Competitors

Table 24. Light Conversion Major Business

Table 25. Light Conversion Infrared Picosecond Laser Product and Services

Table 26. Light Conversion Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 27. Light Conversion Recent Developments/Updates

Table 28. NKT Photonics Basic Information, Manufacturing Base and Competitors

Table 29. NKT Photonics Major Business

Table 30. NKT Photonics Infrared Picosecond Laser Product and Services

Table 31. NKT Photonics Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 32. NKT Photonics Recent Developments/Updates

Table 33. Wuhan Qizhi Laser Technology Basic Information, Manufacturing Base and Competitors

Table 34. Wuhan Qizhi Laser Technology Major Business

Table 35. Wuhan Qizhi Laser Technology Infrared Picosecond Laser Product and Services

Table 36. Wuhan Qizhi Laser Technology Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 37. Wuhan Qizhi Laser Technology Recent Developments/Updates

Table 38. Guangdong Guozhi Laser Technology Basic Information, Manufacturing Base and Competitors

Table 39. Guangdong Guozhi Laser Technology Major Business

Table 40. Guangdong Guozhi Laser Technology Infrared Picosecond Laser Product and Services

Table 41. Guangdong Guozhi Laser Technology Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 42. Guangdong Guozhi Laser Technology Recent Developments/Updates

Table 43. Wuhan Huaray Precision Laser Basic Information, Manufacturing Base and Competitors

Table 44. Wuhan Huaray Precision Laser Major Business

Table 45. Wuhan Huaray Precision Laser Infrared Picosecond Laser Product and Services

Table 46. Wuhan Huaray Precision Laser Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 47. Wuhan Huaray Precision Laser Recent Developments/Updates

Table 48. PulseX Laser Technology Basic Information, Manufacturing Base and Competitors

Table 49. PulseX Laser Technology Major Business

Table 50. PulseX Laser Technology Infrared Picosecond Laser Product and Services

Table 51. PulseX Laser Technology Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)

Table 52. PulseX Laser Technology Recent Developments/Updates
Table 53. Anhui Huachuang Hongdu Optoelectronics Technology Basic Information, Manufacturing Base and Competitors
Table 54. Anhui Huachuang Hongdu Optoelectronics Technology Major Business
Table 55. Anhui Huachuang Hongdu Optoelectronics Technology Infrared Picosecond Laser Product and Services
Table 56. Anhui Huachuang Hongdu Optoelectronics Technology Infrared Picosecond Laser Sales Quantity (Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2020-2025)
Table 57. Anhui Huachuang Hongdu Optoelectronics Technology Recent Developments/Updates
Table 58. Global Infrared Picosecond Laser Sales Quantity by Manufacturer (2020-2025) & (Units)
Table 59. Global Infrared Picosecond Laser Revenue by Manufacturer (2020-2025) & (USD Million)
Table 60. Global Infrared Picosecond Laser Average Price by Manufacturer (2020-2025) & (US\$/Unit)
Table 61. Market Position of Manufacturers in Infrared Picosecond Laser, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2024
Table 62. Head Office and Infrared Picosecond Laser Production Site of Key Manufacturer
Table 63. Infrared Picosecond Laser Market: Company Product Type Footprint
Table 64. Infrared Picosecond Laser Market: Company Product Application Footprint
Table 65. Infrared Picosecond Laser New Market Entrants and Barriers to Market Entry
Table 66. Infrared Picosecond Laser Mergers, Acquisition, Agreements, and Collaborations
Table 67. Global Infrared Picosecond Laser Consumption Value by Region (2020-2024-2031) & (USD Million) & CAGR
Table 68. Global Infrared Picosecond Laser Sales Quantity by Region (2020-2025) & (Units)
Table 69. Global Infrared Picosecond Laser Sales Quantity by Region (2026-2031) & (Units)
Table 70. Global Infrared Picosecond Laser Consumption Value by Region (2020-2025) & (USD Million)
Table 71. Global Infrared Picosecond Laser Consumption Value by Region (2026-2031) & (USD Million)
Table 72. Global Infrared Picosecond Laser Average Price by Region (2020-2025) & (US\$/Unit)
Table 73. Global Infrared Picosecond Laser Average Price by Region (2026-2031) &

(US\$/Unit)

Table 74. Global Infrared Picosecond Laser Sales Quantity by Type (2020-2025) & (Units)

Table 75. Global Infrared Picosecond Laser Sales Quantity by Type (2026-2031) & (Units)

Table 76. Global Infrared Picosecond Laser Consumption Value by Type (2020-2025) & (USD Million)

Table 77. Global Infrared Picosecond Laser Consumption Value by Type (2026-2031) & (USD Million)

Table 78. Global Infrared Picosecond Laser Average Price by Type (2020-2025) & (US\$/Unit)

Table 79. Global Infrared Picosecond Laser Average Price by Type (2026-2031) & (US\$/Unit)

Table 80. Global Infrared Picosecond Laser Sales Quantity by Application (2020-2025) & (Units)

Table 81. Global Infrared Picosecond Laser Sales Quantity by Application (2026-2031) & (Units)

Table 82. Global Infrared Picosecond Laser Consumption Value by Application (2020-2025) & (USD Million)

Table 83. Global Infrared Picosecond Laser Consumption Value by Application (2026-2031) & (USD Million)

Table 84. Global Infrared Picosecond Laser Average Price by Application (2020-2025) & (US\$/Unit)

Table 85. Global Infrared Picosecond Laser Average Price by Application (2026-2031) & (US\$/Unit)

Table 86. North America Infrared Picosecond Laser Sales Quantity by Type (2020-2025) & (Units)

Table 87. North America Infrared Picosecond Laser Sales Quantity by Type (2026-2031) & (Units)

Table 88. North America Infrared Picosecond Laser Sales Quantity by Application (2020-2025) & (Units)

Table 89. North America Infrared Picosecond Laser Sales Quantity by Application (2026-2031) & (Units)

Table 90. North America Infrared Picosecond Laser Sales Quantity by Country (2020-2025) & (Units)

Table 91. North America Infrared Picosecond Laser Sales Quantity by Country (2026-2031) & (Units)

Table 92. North America Infrared Picosecond Laser Consumption Value by Country (2020-2025) & (USD Million)

Table 93. North America Infrared Picosecond Laser Consumption Value by Country (2026-2031) & (USD Million)

Table 94. Europe Infrared Picosecond Laser Sales Quantity by Type (2020-2025) & (Units)

Table 95. Europe Infrared Picosecond Laser Sales Quantity by Type (2026-2031) & (Units)

Table 96. Europe Infrared Picosecond Laser Sales Quantity by Application (2020-2025) & (Units)

Table 97. Europe Infrared Picosecond Laser Sales Quantity by Application (2026-2031) & (Units)

Table 98. Europe Infrared Picosecond Laser Sales Quantity by Country (2020-2025) & (Units)

Table 99. Europe Infrared Picosecond Laser Sales Quantity by Country (2026-2031) & (Units)

Table 100. Europe Infrared Picosecond Laser Consumption Value by Country (2020-2025) & (USD Million)

Table 101. Europe Infrared Picosecond Laser Consumption Value by Country (2026-2031) & (USD Million)

Table 102. Asia-Pacific Infrared Picosecond Laser Sales Quantity by Type (2020-2025) & (Units)

Table 103. Asia-Pacific Infrared Picosecond Laser Sales Quantity by Type (2026-2031) & (Units)

Table 104. Asia-Pacific Infrared Picosecond Laser Sales Quantity by Application (2020-2025) & (Units)

Table 105. Asia-Pacific Infrared Picosecond Laser Sales Quantity by Application (2026-2031) & (Units)

Table 106. Asia-Pacific Infrared Picosecond Laser Sales Quantity by Region (2020-2025) & (Units)

Table 107. Asia-Pacific Infrared Picosecond Laser Sales Quantity by Region (2026-2031) & (Units)

Table 108. Asia-Pacific Infrared Picosecond Laser Consumption Value by Region (2020-2025) & (USD Million)

Table 109. Asia-Pacific Infrared Picosecond Laser Consumption Value by Region (2026-2031) & (USD Million)

Table 110. South America Infrared Picosecond Laser Sales Quantity by Type (2020-2025) & (Units)

Table 111. South America Infrared Picosecond Laser Sales Quantity by Type (2026-2031) & (Units)

Table 112. South America Infrared Picosecond Laser Sales Quantity by Application

(2020-2025) & (Units)

Table 113. South America Infrared Picosecond Laser Sales Quantity by Application
(2026-2031) & (Units)

Table 114. South America Infrared Picosecond Laser Sales Quantity by Country
(2020-2025) & (Units)

Table 115. South America Infrared Picosecond Laser Sales Quantity by Country
(2026-2031) & (Units)

Table 116. South America Infrared Picosecond Laser Consumption Value by Country
(2020-2025) & (USD Million)

Table 117. South America Infrared Picosecond Laser Consumption Value by Country
(2026-2031) & (USD Million)

Table 118. Middle East & Africa Infrared Picosecond Laser Sales Quantity by Type
(2020-2025) & (Units)

Table 119. Middle East & Africa Infrared Picosecond Laser Sales Quantity by Type
(2026-2031) & (Units)

Table 120. Middle East & Africa Infrared Picosecond Laser Sales Quantity by
Application (2020-2025) & (Units)

Table 121. Middle East & Africa Infrared Picosecond Laser Sales Quantity by
Application (2026-2031) & (Units)

Table 122. Middle East & Africa Infrared Picosecond Laser Sales Quantity by Country
(2020-2025) & (Units)

Table 123. Middle East & Africa Infrared Picosecond Laser Sales Quantity by Country
(2026-2031) & (Units)

Table 124. Middle East & Africa Infrared Picosecond Laser Consumption Value by
Country (2020-2025) & (USD Million)

Table 125. Middle East & Africa Infrared Picosecond Laser Consumption Value by
Country (2026-2031) & (USD Million)

Table 126. Infrared Picosecond Laser Raw Material

Table 127. Key Manufacturers of Infrared Picosecond Laser Raw Materials

Table 128. Infrared Picosecond Laser Typical Distributors

Table 129. Infrared Picosecond Laser Typical Customers

LIST OF FIGURES

Figure 1. Infrared Picosecond Laser Picture

Figure 2. Global Infrared Picosecond Laser Revenue by Type, (USD Million), 2020 &
2024 & 2031

Figure 3. Global Infrared Picosecond Laser Revenue Market Share by Type in 2024

Figure 4. Solid-State Lasers Examples

Figure 5. Fiber Lasers Examples

Figure 6. Semiconductor Lasers Examples

Figure 7. Global Infrared Picosecond Laser Consumption Value by Application, (USD Million), 2020 & 2024 & 2031

Figure 8. Global Infrared Picosecond Laser Revenue Market Share by Application in 2024

Figure 9. Medical Industry Examples

Figure 10. Communications Industry Examples

Figure 11. Aerospace Examples

Figure 12. Others Examples

Figure 13. Global Infrared Picosecond Laser Consumption Value, (USD Million): 2020 & 2024 & 2031

Figure 14. Global Infrared Picosecond Laser Consumption Value and Forecast (2020-2031) & (USD Million)

Figure 15. Global Infrared Picosecond Laser Sales Quantity (2020-2031) & (Units)

Figure 16. Global Infrared Picosecond Laser Price (2020-2031) & (US\$/Unit)

Figure 17. Global Infrared Picosecond Laser Sales Quantity Market Share by Manufacturer in 2024

Figure 18. Global Infrared Picosecond Laser Revenue Market Share by Manufacturer in 2024

Figure 19. Producer Shipments of Infrared Picosecond Laser by Manufacturer Sales (\$MM) and Market Share (%): 2024

Figure 20. Top 3 Infrared Picosecond Laser Manufacturer (Revenue) Market Share in 2024

Figure 21. Top 6 Infrared Picosecond Laser Manufacturer (Revenue) Market Share in 2024

Figure 22. Global Infrared Picosecond Laser Sales Quantity Market Share by Region (2020-2031)

Figure 23. Global Infrared Picosecond Laser Consumption Value Market Share by Region (2020-2031)

Figure 24. North America Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 25. Europe Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 26. Asia-Pacific Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 27. South America Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 28. Middle East & Africa Infrared Picosecond Laser Consumption Value

(2020-2031) & (USD Million)

Figure 29. Global Infrared Picosecond Laser Sales Quantity Market Share by Type (2020-2031)

Figure 30. Global Infrared Picosecond Laser Consumption Value Market Share by Type (2020-2031)

Figure 31. Global Infrared Picosecond Laser Average Price by Type (2020-2031) & (US\$/Unit)

Figure 32. Global Infrared Picosecond Laser Sales Quantity Market Share by Application (2020-2031)

Figure 33. Global Infrared Picosecond Laser Revenue Market Share by Application (2020-2031)

Figure 34. Global Infrared Picosecond Laser Average Price by Application (2020-2031) & (US\$/Unit)

Figure 35. North America Infrared Picosecond Laser Sales Quantity Market Share by Type (2020-2031)

Figure 36. North America Infrared Picosecond Laser Sales Quantity Market Share by Application (2020-2031)

Figure 37. North America Infrared Picosecond Laser Sales Quantity Market Share by Country (2020-2031)

Figure 38. North America Infrared Picosecond Laser Consumption Value Market Share by Country (2020-2031)

Figure 39. United States Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 40. Canada Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 41. Mexico Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 42. Europe Infrared Picosecond Laser Sales Quantity Market Share by Type (2020-2031)

Figure 43. Europe Infrared Picosecond Laser Sales Quantity Market Share by Application (2020-2031)

Figure 44. Europe Infrared Picosecond Laser Sales Quantity Market Share by Country (2020-2031)

Figure 45. Europe Infrared Picosecond Laser Consumption Value Market Share by Country (2020-2031)

Figure 46. Germany Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 47. France Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 48. United Kingdom Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 49. Russia Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 50. Italy Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 51. Asia-Pacific Infrared Picosecond Laser Sales Quantity Market Share by Type (2020-2031)

Figure 52. Asia-Pacific Infrared Picosecond Laser Sales Quantity Market Share by Application (2020-2031)

Figure 53. Asia-Pacific Infrared Picosecond Laser Sales Quantity Market Share by Region (2020-2031)

Figure 54. Asia-Pacific Infrared Picosecond Laser Consumption Value Market Share by Region (2020-2031)

Figure 55. China Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 56. Japan Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 57. South Korea Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 58. India Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 59. Southeast Asia Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 60. Australia Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 61. South America Infrared Picosecond Laser Sales Quantity Market Share by Type (2020-2031)

Figure 62. South America Infrared Picosecond Laser Sales Quantity Market Share by Application (2020-2031)

Figure 63. South America Infrared Picosecond Laser Sales Quantity Market Share by Country (2020-2031)

Figure 64. South America Infrared Picosecond Laser Consumption Value Market Share by Country (2020-2031)

Figure 65. Brazil Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 66. Argentina Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 67. Middle East & Africa Infrared Picosecond Laser Sales Quantity Market Share

by Type (2020-2031)

Figure 68. Middle East & Africa Infrared Picosecond Laser Sales Quantity Market Share by Application (2020-2031)

Figure 69. Middle East & Africa Infrared Picosecond Laser Sales Quantity Market Share by Country (2020-2031)

Figure 70. Middle East & Africa Infrared Picosecond Laser Consumption Value Market Share by Country (2020-2031)

Figure 71. Turkey Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 72. Egypt Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 73. Saudi Arabia Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 74. South Africa Infrared Picosecond Laser Consumption Value (2020-2031) & (USD Million)

Figure 75. Infrared Picosecond Laser Market Drivers

Figure 76. Infrared Picosecond Laser Market Restraints

Figure 77. Infrared Picosecond Laser Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Infrared Picosecond Laser in 2024

Figure 80. Manufacturing Process Analysis of Infrared Picosecond Laser

Figure 81. Infrared Picosecond Laser Industrial Chain

Figure 82. Sales Channel: Direct to End-User vs Distributors

Figure 83. Direct Channel Pros & Cons

Figure 84. Indirect Channel Pros & Cons

Figure 85. Methodology

Figure 86. Research Process and Data Source

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