

# Global Ultrafast Lasers Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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## Abstracts

According to our (Global Info Research) latest study, the global Ultrafast Lasers market size was valued at USD 964.4 million in 2023 and is forecast to a readjusted size of USD 1882.8 million by 2030 with a CAGR of 10.0% during review period.

Ultrafast lasers are ultra-short pulse of light with an electromagnetic pulse whose time duration is of the order of a picosecond or less. These pulses have a broadband optical range, and can be produced by mode-locked oscillators.

Ultrafast lasers are commonly referred to as ultrafast events with an amplification of ultra-short pulses which always requires the technique of high pulse amplification, in order to avoid damage to the gain medium of the amplifier. In research & development department, advances in materials and laser configurations promise to open up a variety of new applications outside of the technology's core area of industrial micromachining.

The major players in global Ultrafast Lasers market include Coherent, Trumpf, IPG Photonics, etc. The top 3 players occupy about 40% shares of the global market. Asia-Pacific is the largest market, with a share about 50%, followed by Europe and North America with the share about 23% and 20%. Picosecond is the main type, with a share about 45%. Micromachining is the main application, which holds a share about 60%.

The Global Info Research report includes an overview of the development of the Ultrafast Lasers industry chain, the market status of Micromachining (Picosecond, Femtosecond), Biomedical (Picosecond, Femtosecond), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Ultrafast Lasers.

Regionally, the report analyzes the Ultrafast Lasers markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Ultrafast Lasers market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Ultrafast Lasers market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Ultrafast Lasers industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Picosecond, Femtosecond).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Ultrafast Lasers market.

**Regional Analysis:** The report involves examining the Ultrafast Lasers market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the Ultrafast Lasers market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Ultrafast Lasers:

**Company Analysis:** Report covers individual Ultrafast Lasers manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards Ultrafast Lasers. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Micromachining, Biomedical).

**Technology Analysis:** Report covers specific technologies relevant to Ultrafast Lasers. It assesses the current state, advancements, and potential future developments in Ultrafast Lasers areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Ultrafast Lasers market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

Ultrafast Lasers market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Picosecond

Femtosecond

### Market segment by Application

Micromachining

Biomedical

Spectroscopy and Imaging

Science and Research

Others

### Major players covered

Trumpf

Coherent

IPG Photonics

Newport

Amplitude Laser Group

Novanta

Lumentum

IMRA America

NKT Photonics

Clark-MXR

Ekspla

Huaray Precision Laser

Yangtze Soton Laser (YSL)

Bellin Laser

NPI Lasers

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 Ultrafast Lasers product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Ultrafast Lasers, with price, sales, revenue and global market share of Ultrafast Lasers from 2019 to 2024.

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

Chapter 4, the Ultrafast Lasers breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Ultrafast Lasers market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Ultrafast Lasers.

Chapter 14 and 15, to describe Ultrafast Lasers sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

- 1.1 Product Overview and Scope of Ultrafast Lasers
- 1.2 Market Estimation Caveats and Base Year
- 1.3 Market Analysis by Type
  - 1.3.1 Overview: Global Ultrafast Lasers Consumption Value by Type: 2019 Versus 2023 Versus 2030
  - 1.3.2 Picosecond
  - 1.3.3 Femtosecond
- 1.4 Market Analysis by Application
  - 1.4.1 Overview: Global Ultrafast Lasers Consumption Value by Application: 2019 Versus 2023 Versus 2030
  - 1.4.2 Micromachining
  - 1.4.3 Biomedical
  - 1.4.4 Spectroscopy and Imaging
  - 1.4.5 Science and Research
  - 1.4.6 Others
- 1.5 Global Ultrafast Lasers Market Size & Forecast
  - 1.5.1 Global Ultrafast Lasers Consumption Value (2019 & 2023 & 2030)
  - 1.5.2 Global Ultrafast Lasers Sales Quantity (2019-2030)
  - 1.5.3 Global Ultrafast Lasers Average Price (2019-2030)

### 2 MANUFACTURERS PROFILES

- 2.1 Trumpf
  - 2.1.1 Trumpf Details
  - 2.1.2 Trumpf Major Business
  - 2.1.3 Trumpf Ultrafast Lasers Product and Services
  - 2.1.4 Trumpf Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.1.5 Trumpf Recent Developments/Updates
- 2.2 Coherent
  - 2.2.1 Coherent Details
  - 2.2.2 Coherent Major Business
  - 2.2.3 Coherent Ultrafast Lasers Product and Services
  - 2.2.4 Coherent Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.2.5 Coherent Recent Developments/Updates
- 2.3 IPG Photonics
  - 2.3.1 IPG Photonics Details
  - 2.3.2 IPG Photonics Major Business
  - 2.3.3 IPG Photonics Ultrafast Lasers Product and Services
  - 2.3.4 IPG Photonics Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.3.5 IPG Photonics Recent Developments/Updates
- 2.4 Newport
  - 2.4.1 Newport Details
  - 2.4.2 Newport Major Business
  - 2.4.3 Newport Ultrafast Lasers Product and Services
  - 2.4.4 Newport Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.4.5 Newport Recent Developments/Updates
- 2.5 Amplitude Laser Group
  - 2.5.1 Amplitude Laser Group Details
  - 2.5.2 Amplitude Laser Group Major Business
  - 2.5.3 Amplitude Laser Group Ultrafast Lasers Product and Services
  - 2.5.4 Amplitude Laser Group Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.5.5 Amplitude Laser Group Recent Developments/Updates
- 2.6 Novanta
  - 2.6.1 Novanta Details
  - 2.6.2 Novanta Major Business
  - 2.6.3 Novanta Ultrafast Lasers Product and Services
  - 2.6.4 Novanta Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.6.5 Novanta Recent Developments/Updates
- 2.7 Lumentum
  - 2.7.1 Lumentum Details
  - 2.7.2 Lumentum Major Business
  - 2.7.3 Lumentum Ultrafast Lasers Product and Services
  - 2.7.4 Lumentum Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.7.5 Lumentum Recent Developments/Updates
- 2.8 IMRA America
  - 2.8.1 IMRA America Details
  - 2.8.2 IMRA America Major Business



- 2.8.3 IMRA America Ultrafast Lasers Product and Services
- 2.8.4 IMRA America Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 IMRA America Recent Developments/Updates
- 2.9 NKT Photonics
  - 2.9.1 NKT Photonics Details
  - 2.9.2 NKT Photonics Major Business
  - 2.9.3 NKT Photonics Ultrafast Lasers Product and Services
  - 2.9.4 NKT Photonics Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.9.5 NKT Photonics Recent Developments/Updates
- 2.10 Clark-MXR
  - 2.10.1 Clark-MXR Details
  - 2.10.2 Clark-MXR Major Business
  - 2.10.3 Clark-MXR Ultrafast Lasers Product and Services
  - 2.10.4 Clark-MXR Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.10.5 Clark-MXR Recent Developments/Updates
- 2.11 Ekspla
  - 2.11.1 Ekspla Details
  - 2.11.2 Ekspla Major Business
  - 2.11.3 Ekspla Ultrafast Lasers Product and Services
  - 2.11.4 Ekspla Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.11.5 Ekspla Recent Developments/Updates
- 2.12 Huaray Precision Laser
  - 2.12.1 Huaray Precision Laser Details
  - 2.12.2 Huaray Precision Laser Major Business
  - 2.12.3 Huaray Precision Laser Ultrafast Lasers Product and Services
  - 2.12.4 Huaray Precision Laser Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.12.5 Huaray Precision Laser Recent Developments/Updates
- 2.13 Yangtze Soton Laser (YSL)
  - 2.13.1 Yangtze Soton Laser (YSL) Details
  - 2.13.2 Yangtze Soton Laser (YSL) Major Business
  - 2.13.3 Yangtze Soton Laser (YSL) Ultrafast Lasers Product and Services
  - 2.13.4 Yangtze Soton Laser (YSL) Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
  - 2.13.5 Yangtze Soton Laser (YSL) Recent Developments/Updates

## 2.14 Bellin Laser

### 2.14.1 Bellin Laser Details

### 2.14.2 Bellin Laser Major Business

### 2.14.3 Bellin Laser Ultrafast Lasers Product and Services

### 2.14.4 Bellin Laser Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.14.5 Bellin Laser Recent Developments/Updates

## 2.15 NPI Lasers

### 2.15.1 NPI Lasers Details

### 2.15.2 NPI Lasers Major Business

### 2.15.3 NPI Lasers Ultrafast Lasers Product and Services

### 2.15.4 NPI Lasers Ultrafast Lasers Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

### 2.15.5 NPI Lasers Recent Developments/Updates

## **3 COMPETITIVE ENVIRONMENT: ULTRAFAST LASERS BY MANUFACTURER**

### 3.1 Global Ultrafast Lasers Sales Quantity by Manufacturer (2019-2024)

### 3.2 Global Ultrafast Lasers Revenue by Manufacturer (2019-2024)

### 3.3 Global Ultrafast Lasers Average Price by Manufacturer (2019-2024)

### 3.4 Market Share Analysis (2023)

#### 3.4.1 Producer Shipments of Ultrafast Lasers by Manufacturer Revenue (\$MM) and Market Share (%): 2023

#### 3.4.2 Top 3 Ultrafast Lasers Manufacturer Market Share in 2023

#### 3.4.2 Top 6 Ultrafast Lasers Manufacturer Market Share in 2023

### 3.5 Ultrafast Lasers Market: Overall Company Footprint Analysis

#### 3.5.1 Ultrafast Lasers Market: Region Footprint

#### 3.5.2 Ultrafast Lasers Market: Company Product Type Footprint

#### 3.5.3 Ultrafast Lasers 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 Ultrafast Lasers Market Size by Region

#### 4.1.1 Global Ultrafast Lasers Sales Quantity by Region (2019-2030)

#### 4.1.2 Global Ultrafast Lasers Consumption Value by Region (2019-2030)

#### 4.1.3 Global Ultrafast Lasers Average Price by Region (2019-2030)

### 4.2 North America Ultrafast Lasers Consumption Value (2019-2030)

- 4.3 Europe Ultrafast Lasers Consumption Value (2019-2030)
- 4.4 Asia-Pacific Ultrafast Lasers Consumption Value (2019-2030)
- 4.5 South America Ultrafast Lasers Consumption Value (2019-2030)
- 4.6 Middle East and Africa Ultrafast Lasers Consumption Value (2019-2030)

## **5 MARKET SEGMENT BY TYPE**

- 5.1 Global Ultrafast Lasers Sales Quantity by Type (2019-2030)
- 5.2 Global Ultrafast Lasers Consumption Value by Type (2019-2030)
- 5.3 Global Ultrafast Lasers Average Price by Type (2019-2030)

## **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Ultrafast Lasers Sales Quantity by Application (2019-2030)
- 6.2 Global Ultrafast Lasers Consumption Value by Application (2019-2030)
- 6.3 Global Ultrafast Lasers Average Price by Application (2019-2030)

## **7 NORTH AMERICA**

- 7.1 North America Ultrafast Lasers Sales Quantity by Type (2019-2030)
- 7.2 North America Ultrafast Lasers Sales Quantity by Application (2019-2030)
- 7.3 North America Ultrafast Lasers Market Size by Country
  - 7.3.1 North America Ultrafast Lasers Sales Quantity by Country (2019-2030)
  - 7.3.2 North America Ultrafast Lasers Consumption Value by Country (2019-2030)
  - 7.3.3 United States Market Size and Forecast (2019-2030)
  - 7.3.4 Canada Market Size and Forecast (2019-2030)
  - 7.3.5 Mexico Market Size and Forecast (2019-2030)

## **8 EUROPE**

- 8.1 Europe Ultrafast Lasers Sales Quantity by Type (2019-2030)
- 8.2 Europe Ultrafast Lasers Sales Quantity by Application (2019-2030)
- 8.3 Europe Ultrafast Lasers Market Size by Country
  - 8.3.1 Europe Ultrafast Lasers Sales Quantity by Country (2019-2030)
  - 8.3.2 Europe Ultrafast Lasers Consumption Value by Country (2019-2030)
  - 8.3.3 Germany Market Size and Forecast (2019-2030)
  - 8.3.4 France Market Size and Forecast (2019-2030)
  - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
  - 8.3.6 Russia Market Size and Forecast (2019-2030)

### 8.3.7 Italy Market Size and Forecast (2019-2030)

## 9 ASIA-PACIFIC

### 9.1 Asia-Pacific Ultrafast Lasers Sales Quantity by Type (2019-2030)

### 9.2 Asia-Pacific Ultrafast Lasers Sales Quantity by Application (2019-2030)

### 9.3 Asia-Pacific Ultrafast Lasers Market Size by Region

#### 9.3.1 Asia-Pacific Ultrafast Lasers Sales Quantity by Region (2019-2030)

#### 9.3.2 Asia-Pacific Ultrafast Lasers Consumption Value by Region (2019-2030)

#### 9.3.3 China Market Size and Forecast (2019-2030)

#### 9.3.4 Japan Market Size and Forecast (2019-2030)

#### 9.3.5 Korea Market Size and Forecast (2019-2030)

#### 9.3.6 India Market Size and Forecast (2019-2030)

#### 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

#### 9.3.8 Australia Market Size and Forecast (2019-2030)

## 10 SOUTH AMERICA

### 10.1 South America Ultrafast Lasers Sales Quantity by Type (2019-2030)

### 10.2 South America Ultrafast Lasers Sales Quantity by Application (2019-2030)

### 10.3 South America Ultrafast Lasers Market Size by Country

#### 10.3.1 South America Ultrafast Lasers Sales Quantity by Country (2019-2030)

#### 10.3.2 South America Ultrafast Lasers Consumption Value by Country (2019-2030)

#### 10.3.3 Brazil Market Size and Forecast (2019-2030)

#### 10.3.4 Argentina Market Size and Forecast (2019-2030)

## 11 MIDDLE EAST & AFRICA

### 11.1 Middle East & Africa Ultrafast Lasers Sales Quantity by Type (2019-2030)

### 11.2 Middle East & Africa Ultrafast Lasers Sales Quantity by Application (2019-2030)

### 11.3 Middle East & Africa Ultrafast Lasers Market Size by Country

#### 11.3.1 Middle East & Africa Ultrafast Lasers Sales Quantity by Country (2019-2030)

#### 11.3.2 Middle East & Africa Ultrafast Lasers Consumption Value by Country (2019-2030)

#### 11.3.3 Turkey Market Size and Forecast (2019-2030)

#### 11.3.4 Egypt Market Size and Forecast (2019-2030)

#### 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

#### 11.3.6 South Africa Market Size and Forecast (2019-2030)

## **12 MARKET DYNAMICS**

- 12.1 Ultrafast Lasers Market Drivers
- 12.2 Ultrafast Lasers Market Restraints
- 12.3 Ultrafast Lasers 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 Ultrafast Lasers and Key Manufacturers
- 13.2 Manufacturing Costs Percentage of Ultrafast Lasers
- 13.3 Ultrafast Lasers Production Process
- 13.4 Ultrafast Lasers Industrial Chain

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

- 14.1 Sales Channel
  - 14.1.1 Direct to End-User
  - 14.1.2 Distributors
- 14.2 Ultrafast Lasers Typical Distributors
- 14.3 Ultrafast Lasers Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

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

## List Of Tables

### LIST OF TABLES

Table 1. Global Ultrafast Lasers Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Ultrafast Lasers Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Trumpf Basic Information, Manufacturing Base and Competitors

Table 4. Trumpf Major Business

Table 5. Trumpf Ultrafast Lasers Product and Services

Table 6. Trumpf Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Trumpf Recent Developments/Updates

Table 8. Coherent Basic Information, Manufacturing Base and Competitors

Table 9. Coherent Major Business

Table 10. Coherent Ultrafast Lasers Product and Services

Table 11. Coherent Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Coherent Recent Developments/Updates

Table 13. IPG Photonics Basic Information, Manufacturing Base and Competitors

Table 14. IPG Photonics Major Business

Table 15. IPG Photonics Ultrafast Lasers Product and Services

Table 16. IPG Photonics Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. IPG Photonics Recent Developments/Updates

Table 18. Newport Basic Information, Manufacturing Base and Competitors

Table 19. Newport Major Business

Table 20. Newport Ultrafast Lasers Product and Services

Table 21. Newport Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Newport Recent Developments/Updates

Table 23. Amplitude Laser Group Basic Information, Manufacturing Base and Competitors

Table 24. Amplitude Laser Group Major Business

Table 25. Amplitude Laser Group Ultrafast Lasers Product and Services

Table 26. Amplitude Laser Group Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Amplitude Laser Group Recent Developments/Updates



- Table 28. Novanta Basic Information, Manufacturing Base and Competitors
- Table 29. Novanta Major Business
- Table 30. Novanta Ultrafast Lasers Product and Services
- Table 31. Novanta Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. Novanta Recent Developments/Updates
- Table 33. Lumentum Basic Information, Manufacturing Base and Competitors
- Table 34. Lumentum Major Business
- Table 35. Lumentum Ultrafast Lasers Product and Services
- Table 36. Lumentum Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Lumentum Recent Developments/Updates
- Table 38. IMRA America Basic Information, Manufacturing Base and Competitors
- Table 39. IMRA America Major Business
- Table 40. IMRA America Ultrafast Lasers Product and Services
- Table 41. IMRA America Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. IMRA America Recent Developments/Updates
- Table 43. NKT Photonics Basic Information, Manufacturing Base and Competitors
- Table 44. NKT Photonics Major Business
- Table 45. NKT Photonics Ultrafast Lasers Product and Services
- Table 46. NKT Photonics Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. NKT Photonics Recent Developments/Updates
- Table 48. Clark-MXR Basic Information, Manufacturing Base and Competitors
- Table 49. Clark-MXR Major Business
- Table 50. Clark-MXR Ultrafast Lasers Product and Services
- Table 51. Clark-MXR Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. Clark-MXR Recent Developments/Updates
- Table 53. Ekspla Basic Information, Manufacturing Base and Competitors
- Table 54. Ekspla Major Business
- Table 55. Ekspla Ultrafast Lasers Product and Services
- Table 56. Ekspla Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. Ekspla Recent Developments/Updates
- Table 58. Huaray Precision Laser Basic Information, Manufacturing Base and Competitors
- Table 59. Huaray Precision Laser Major Business

- Table 60. Huaray Precision Laser Ultrafast Lasers Product and Services
- Table 61. Huaray Precision Laser Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 62. Huaray Precision Laser Recent Developments/Updates
- Table 63. Yangtze Soton Laser (YSL) Basic Information, Manufacturing Base and Competitors
- Table 64. Yangtze Soton Laser (YSL) Major Business
- Table 65. Yangtze Soton Laser (YSL) Ultrafast Lasers Product and Services
- Table 66. Yangtze Soton Laser (YSL) Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 67. Yangtze Soton Laser (YSL) Recent Developments/Updates
- Table 68. Bellin Laser Basic Information, Manufacturing Base and Competitors
- Table 69. Bellin Laser Major Business
- Table 70. Bellin Laser Ultrafast Lasers Product and Services
- Table 71. Bellin Laser Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 72. Bellin Laser Recent Developments/Updates
- Table 73. NPI Lasers Basic Information, Manufacturing Base and Competitors
- Table 74. NPI Lasers Major Business
- Table 75. NPI Lasers Ultrafast Lasers Product and Services
- Table 76. NPI Lasers Ultrafast Lasers Sales Quantity (Units), Average Price (K US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 77. NPI Lasers Recent Developments/Updates
- Table 78. Global Ultrafast Lasers Sales Quantity by Manufacturer (2019-2024) & (Units)
- Table 79. Global Ultrafast Lasers Revenue by Manufacturer (2019-2024) & (USD Million)
- Table 80. Global Ultrafast Lasers Average Price by Manufacturer (2019-2024) & (K US\$/Unit)
- Table 81. Market Position of Manufacturers in Ultrafast Lasers, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023
- Table 82. Head Office and Ultrafast Lasers Production Site of Key Manufacturer
- Table 83. Ultrafast Lasers Market: Company Product Type Footprint
- Table 84. Ultrafast Lasers Market: Company Product Application Footprint
- Table 85. Ultrafast Lasers New Market Entrants and Barriers to Market Entry
- Table 86. Ultrafast Lasers Mergers, Acquisition, Agreements, and Collaborations
- Table 87. Global Ultrafast Lasers Sales Quantity by Region (2019-2024) & (Units)
- Table 88. Global Ultrafast Lasers Sales Quantity by Region (2025-2030) & (Units)
- Table 89. Global Ultrafast Lasers Consumption Value by Region (2019-2024) & (USD



Million)

Table 90. Global Ultrafast Lasers Consumption Value by Region (2025-2030) & (USD Million)

Table 91. Global Ultrafast Lasers Average Price by Region (2019-2024) & (K US\$/Unit)

Table 92. Global Ultrafast Lasers Average Price by Region (2025-2030) & (K US\$/Unit)

Table 93. Global Ultrafast Lasers Sales Quantity by Type (2019-2024) & (Units)

Table 94. Global Ultrafast Lasers Sales Quantity by Type (2025-2030) & (Units)

Table 95. Global Ultrafast Lasers Consumption Value by Type (2019-2024) & (USD Million)

Table 96. Global Ultrafast Lasers Consumption Value by Type (2025-2030) & (USD Million)

Table 97. Global Ultrafast Lasers Average Price by Type (2019-2024) & (K US\$/Unit)

Table 98. Global Ultrafast Lasers Average Price by Type (2025-2030) & (K US\$/Unit)

Table 99. Global Ultrafast Lasers Sales Quantity by Application (2019-2024) & (Units)

Table 100. Global Ultrafast Lasers Sales Quantity by Application (2025-2030) & (Units)

Table 101. Global Ultrafast Lasers Consumption Value by Application (2019-2024) & (USD Million)

Table 102. Global Ultrafast Lasers Consumption Value by Application (2025-2030) & (USD Million)

Table 103. Global Ultrafast Lasers Average Price by Application (2019-2024) & (K US\$/Unit)

Table 104. Global Ultrafast Lasers Average Price by Application (2025-2030) & (K US\$/Unit)

Table 105. North America Ultrafast Lasers Sales Quantity by Type (2019-2024) & (Units)

Table 106. North America Ultrafast Lasers Sales Quantity by Type (2025-2030) & (Units)

Table 107. North America Ultrafast Lasers Sales Quantity by Application (2019-2024) & (Units)

Table 108. North America Ultrafast Lasers Sales Quantity by Application (2025-2030) & (Units)

Table 109. North America Ultrafast Lasers Sales Quantity by Country (2019-2024) & (Units)

Table 110. North America Ultrafast Lasers Sales Quantity by Country (2025-2030) & (Units)

Table 111. North America Ultrafast Lasers Consumption Value by Country (2019-2024) & (USD Million)

Table 112. North America Ultrafast Lasers Consumption Value by Country (2025-2030) & (USD Million)

Table 113. Europe Ultrafast Lasers Sales Quantity by Type (2019-2024) & (Units)

Table 114. Europe Ultrafast Lasers Sales Quantity by Type (2025-2030) & (Units)

Table 115. Europe Ultrafast Lasers Sales Quantity by Application (2019-2024) & (Units)

Table 116. Europe Ultrafast Lasers Sales Quantity by Application (2025-2030) & (Units)

Table 117. Europe Ultrafast Lasers Sales Quantity by Country (2019-2024) & (Units)

Table 118. Europe Ultrafast Lasers Sales Quantity by Country (2025-2030) & (Units)

Table 119. Europe Ultrafast Lasers Consumption Value by Country (2019-2024) & (USD Million)

Table 120. Europe Ultrafast Lasers Consumption Value by Country (2025-2030) & (USD Million)

Table 121. Asia-Pacific Ultrafast Lasers Sales Quantity by Type (2019-2024) & (Units)

Table 122. Asia-Pacific Ultrafast Lasers Sales Quantity by Type (2025-2030) & (Units)

Table 123. Asia-Pacific Ultrafast Lasers Sales Quantity by Application (2019-2024) & (Units)

Table 124. Asia-Pacific Ultrafast Lasers Sales Quantity by Application (2025-2030) & (Units)

Table 125. Asia-Pacific Ultrafast Lasers Sales Quantity by Region (2019-2024) & (Units)

Table 126. Asia-Pacific Ultrafast Lasers Sales Quantity by Region (2025-2030) & (Units)

Table 127. Asia-Pacific Ultrafast Lasers Consumption Value by Region (2019-2024) & (USD Million)

Table 128. Asia-Pacific Ultrafast Lasers Consumption Value by Region (2025-2030) & (USD Million)

Table 129. South America Ultrafast Lasers Sales Quantity by Type (2019-2024) & (Units)

Table 130. South America Ultrafast Lasers Sales Quantity by Type (2025-2030) & (Units)

Table 131. South America Ultrafast Lasers Sales Quantity by Application (2019-2024) & (Units)

Table 132. South America Ultrafast Lasers Sales Quantity by Application (2025-2030) & (Units)

Table 133. South America Ultrafast Lasers Sales Quantity by Country (2019-2024) & (Units)

Table 134. South America Ultrafast Lasers Sales Quantity by Country (2025-2030) & (Units)

Table 135. South America Ultrafast Lasers Consumption Value by Country (2019-2024) & (USD Million)

Table 136. South America Ultrafast Lasers Consumption Value by Country (2025-2030) & (USD Million)

Table 137. Middle East & Africa Ultrafast Lasers Sales Quantity by Type (2019-2024) &

(Units)

Table 138. Middle East & Africa Ultrafast Lasers Sales Quantity by Type (2025-2030) & (Units)

Table 139. Middle East & Africa Ultrafast Lasers Sales Quantity by Application (2019-2024) & (Units)

Table 140. Middle East & Africa Ultrafast Lasers Sales Quantity by Application (2025-2030) & (Units)

Table 141. Middle East & Africa Ultrafast Lasers Sales Quantity by Region (2019-2024) & (Units)

Table 142. Middle East & Africa Ultrafast Lasers Sales Quantity by Region (2025-2030) & (Units)

Table 143. Middle East & Africa Ultrafast Lasers Consumption Value by Region (2019-2024) & (USD Million)

Table 144. Middle East & Africa Ultrafast Lasers Consumption Value by Region (2025-2030) & (USD Million)

Table 145. Ultrafast Lasers Raw Material

Table 146. Key Manufacturers of Ultrafast Lasers Raw Materials

Table 147. Ultrafast Lasers Typical Distributors

Table 148. Ultrafast Lasers Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Ultrafast Lasers Picture

Figure 2. Global Ultrafast Lasers Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Ultrafast Lasers Consumption Value Market Share by Type in 2023

Figure 4. Picosecond Examples

Figure 5. Femtosecond Examples

Figure 6. Global Ultrafast Lasers Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global Ultrafast Lasers Consumption Value Market Share by Application in 2023

Figure 8. Micromachining Examples

Figure 9. Biomedical Examples

Figure 10. Spectroscopy and Imaging Examples

Figure 11. Science and Research Examples

Figure 12. Others Examples

Figure 13. Global Ultrafast Lasers Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 14. Global Ultrafast Lasers Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 15. Global Ultrafast Lasers Sales Quantity (2019-2030) & (Units)

Figure 16. Global Ultrafast Lasers Average Price (2019-2030) & (K US\$/Unit)

Figure 17. Global Ultrafast Lasers Sales Quantity Market Share by Manufacturer in 2023

Figure 18. Global Ultrafast Lasers Consumption Value Market Share by Manufacturer in 2023

Figure 19. Producer Shipments of Ultrafast Lasers by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 20. Top 3 Ultrafast Lasers Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Top 6 Ultrafast Lasers Manufacturer (Consumption Value) Market Share in 2023

Figure 22. Global Ultrafast Lasers Sales Quantity Market Share by Region (2019-2030)

Figure 23. Global Ultrafast Lasers Consumption Value Market Share by Region (2019-2030)

Figure 24. North America Ultrafast Lasers Consumption Value (2019-2030) & (USD

Million)

Figure 25. Europe Ultrafast Lasers Consumption Value (2019-2030) & (USD Million)

Figure 26. Asia-Pacific Ultrafast Lasers Consumption Value (2019-2030) & (USD Million)

Figure 27. South America Ultrafast Lasers Consumption Value (2019-2030) & (USD Million)

Figure 28. Middle East & Africa Ultrafast Lasers Consumption Value (2019-2030) & (USD Million)

Figure 29. Global Ultrafast Lasers Sales Quantity Market Share by Type (2019-2030)

Figure 30. Global Ultrafast Lasers Consumption Value Market Share by Type (2019-2030)

Figure 31. Global Ultrafast Lasers Average Price by Type (2019-2030) & (K US\$/Unit)

Figure 32. Global Ultrafast Lasers Sales Quantity Market Share by Application (2019-2030)

Figure 33. Global Ultrafast Lasers Consumption Value Market Share by Application (2019-2030)

Figure 34. Global Ultrafast Lasers Average Price by Application (2019-2030) & (K US\$/Unit)

Figure 35. North America Ultrafast Lasers Sales Quantity Market Share by Type (2019-2030)

Figure 36. North America Ultrafast Lasers Sales Quantity Market Share by Application (2019-2030)

Figure 37. North America Ultrafast Lasers Sales Quantity Market Share by Country (2019-2030)

Figure 38. North America Ultrafast Lasers Consumption Value Market Share by Country (2019-2030)

Figure 39. United States Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Canada Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Mexico Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Europe Ultrafast Lasers Sales Quantity Market Share by Type (2019-2030)

Figure 43. Europe Ultrafast Lasers Sales Quantity Market Share by Application (2019-2030)

Figure 44. Europe Ultrafast Lasers Sales Quantity Market Share by Country (2019-2030)

Figure 45. Europe Ultrafast Lasers Consumption Value Market Share by Country (2019-2030)

Figure 46. Germany Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 47. France Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. United Kingdom Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. Russia Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Italy Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Asia-Pacific Ultrafast Lasers Sales Quantity Market Share by Type (2019-2030)

Figure 52. Asia-Pacific Ultrafast Lasers Sales Quantity Market Share by Application (2019-2030)

Figure 53. Asia-Pacific Ultrafast Lasers Sales Quantity Market Share by Region (2019-2030)

Figure 54. Asia-Pacific Ultrafast Lasers Consumption Value Market Share by Region (2019-2030)

Figure 55. China Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 56. Japan Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Korea Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. India Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. Southeast Asia Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Australia Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. South America Ultrafast Lasers Sales Quantity Market Share by Type (2019-2030)

Figure 62. South America Ultrafast Lasers Sales Quantity Market Share by Application (2019-2030)

Figure 63. South America Ultrafast Lasers Sales Quantity Market Share by Country (2019-2030)

Figure 64. South America Ultrafast Lasers Consumption Value Market Share by Country (2019-2030)

Figure 65. Brazil Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) &



(USD Million)

Figure 66. Argentina Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Middle East & Africa Ultrafast Lasers Sales Quantity Market Share by Type (2019-2030)

Figure 68. Middle East & Africa Ultrafast Lasers Sales Quantity Market Share by Application (2019-2030)

Figure 69. Middle East & Africa Ultrafast Lasers Sales Quantity Market Share by Region (2019-2030)

Figure 70. Middle East & Africa Ultrafast Lasers Consumption Value Market Share by Region (2019-2030)

Figure 71. Turkey Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Egypt Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Saudi Arabia Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. South Africa Ultrafast Lasers Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. Ultrafast Lasers Market Drivers

Figure 76. Ultrafast Lasers Market Restraints

Figure 77. Ultrafast Lasers Market Trends

Figure 78. Porters Five Forces Analysis

Figure 79. Manufacturing Cost Structure Analysis of Ultrafast Lasers in 2023

Figure 80. Manufacturing Process Analysis of Ultrafast Lasers

Figure 81. Ultrafast Lasers Industrial Chain

Figure 82. Sales Quantity 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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