

# Global Ultrafast Picosecond and Femtosecond Fiber Laser Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Ultrafast Picosecond and Femtosecond Fiber Laser market size is expected to reach \$ 2601 million by 2032, rising at a market growth of 12.5% CAGR during the forecast period (2026-2032).

Ultrafast Picosecond and Femtosecond Fiber Lasers refer to laser systems based on doped-fiber or hybrid-fiber gain and amplification architectures, capable of generating pulses in the picosecond and femtosecond range. These products offer high peak power, excellent beam quality, minimal heat-affected zones, high processing precision, and strong operational stability, and they represent the core product categories within the ultrafast fiber laser market. Their upstream raw materials and key components mainly include active doped fibers, pump laser diodes, fiber Bragg gratings, isolators, combiners, acousto-optic or electro-optic modulators, pulse compression and dispersion-management components, nonlinear crystals, precision optical components, power supply and control units, thermal-management modules, and high-reliability electromechanical packaging parts. Major downstream customers include precision manufacturing equipment suppliers, medical device and biophotonics system manufacturers, analytical and imaging instrument providers, research institutes, and high-end equipment integrators. In 2025, global production capacity of Ultrafast Picosecond and Femtosecond Fiber Lasers is estimated at about 13,200 units, with sales of about 10,460 units, an average ex-factory price of about USD 106,000 per unit, and an industry gross margin of about 42%-55%. Mainstream commercial products have developed into both picosecond and femtosecond series and now cover multi-wavelength configurations including infrared, green, and ultraviolet solutions, with key applications focused on precision micromachining, medical processing, two-photon microscopy, semiconductor-related inspection, and advanced analytical applications.

The Ultrafast Picosecond and Femtosecond Fiber Laser market is steadily expanding from research and high-end instrumentation toward broader adoption in advanced manufacturing, with micromachining remaining the most important source of demand. As requirements continue to increase in precision cutting, drilling, film removal, ablation, and surface structuring, picosecond and femtosecond fiber-based solutions are gaining stronger penetration in precision manufacturing, electronics processing, and high-consistency production because of their low thermal impact, high processing quality, strong repeatability, and reliable operational performance. At the same time, demand from medical micro-manufacturing, two-photon microscopy, analytical systems, and imaging applications is also growing steadily, giving the market a development pattern supported by both industrial and research demand.

From a competitive perspective, the industry is evolving from standalone laser-source supply toward platform-based, portfolio-driven, and application-collaborative competition. Leading suppliers are continuously broadening their offerings across picosecond and femtosecond regimes, multiple wavelengths, and different power classes, while placing greater emphasis on co-development with automation platforms, processing equipment, and end-use systems. These lasers are already being deployed in large-scale industrial micromachining, two-photon lithography, semiconductor metrology, semiconductor inspection, industrial metrology, and high-end microscopy. This means market competition is no longer defined only by pulse duration or power level, but increasingly by process adaptability, system integration capability, long-term stability, and customer support strength.

Looking ahead, the key growth drivers are expected to come from the upgrading of high-end manufacturing, tighter micro- and nano-scale processing requirements, and the rising need to process new materials and new device structures. Advanced electronics manufacturing, precision medical devices, two-photon microfabrication, bioimaging, and selected high-end analytical applications all require lower damage, better edge quality, stronger consistency, and higher equipment uptime. These requirements are likely to continue pushing ultrafast picosecond and femtosecond fiber lasers toward higher average power, better beam control, stronger process adaptability, and greater system integration. At the same time, increasing demand in life sciences, microscopy, spectroscopy, and advanced analytical instrumentation for stable, compact, and low-maintenance light sources should further support the expansion of fiber-based architectures.

The industry, however, still faces several constraints. Core components, precision optics, specialty materials, and high-reliability packaging impose demanding

requirements on supply chain stability and manufacturing consistency, while some high-end segments remain subject to substantial technical barriers and long qualification cycles. In addition, downstream high-end manufacturing customers typically require rigorous process validation, long adoption cycles, strong long-term reliability, and scalable volume delivery, which can slow the commercialization pace of new products. As competition intensifies, suppliers must continue strengthening research and development, cost control, delivery capability, after-sales support, and global service coverage. Overall, the industry retains favorable long-term growth potential, but future competition will increasingly be defined by the combined strength of technology platforms, process know-how, customer access, and supply chain coordination.

This report studies the global Ultrafast Picosecond and Femtosecond Fiber Laser production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Ultrafast Picosecond and Femtosecond Fiber Laser and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Ultrafast Picosecond and Femtosecond Fiber Laser that contribute to its increasing demand across many markets.

#### Highlights and key features of the study

Global Ultrafast Picosecond and Femtosecond Fiber Laser total production and demand, 2021-2032, (Units)

Global Ultrafast Picosecond and Femtosecond Fiber Laser total production value, 2021-2032, (USD Million)

Global Ultrafast Picosecond and Femtosecond Fiber Laser production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Ultrafast Picosecond and Femtosecond Fiber Laser consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Ultrafast Picosecond and Femtosecond Fiber Laser domestic production, consumption, key domestic manufacturers and share

Global Ultrafast Picosecond and Femtosecond Fiber Laser production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Ultrafast Picosecond and Femtosecond Fiber Laser production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Ultrafast Picosecond and Femtosecond Fiber Laser production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Ultrafast Picosecond and Femtosecond Fiber Laser market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Coherent, TRUMPF, IPG Photonics, MKS Instruments, NKT Photonics, Amplitude Laser, Wuhan Raycus, TOPTICA Photonics, H?BNER Photonics, YSL Photonics, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Ultrafast Picosecond and Femtosecond Fiber Laser market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Ultrafast Picosecond and Femtosecond Fiber Laser Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Ultrafast Picosecond and Femtosecond Fiber Laser Market, Segmentation by Type:

Picosecond Fiber Lasers

Femtosecond Fiber Lasers

Global Ultrafast Picosecond and Femtosecond Fiber Laser Market, Segmentation by Output Wavelength:

Infrared Fiber Lasers

Green Fiber Lasers

Ultraviolet Fiber Lasers

Others

Global Ultrafast Picosecond and Femtosecond Fiber Laser Market, Segmentation by Gain Medium:

Ytterbium-Doped Fiber Lasers

Erbium-Doped Fiber Lasers

Thulium-Doped Fiber Lasers

Others

Global Ultrafast Picosecond and Femtosecond Fiber Laser Market, Segmentation by Application:

Material Processing

Biomedical and Medical

Analytical and Imaging

Scientific Research

Others

#### Companies Profiled:

Coherent

TRUMPF

IPG Photonics

MKS Instruments

NKT Photonics

Amplitude Laser

Wuhan Raycus

TOPTICA Photonics

H?BNER Photonics

YSL Photonics

Wuhan Huaray Precision Laser

EKSPLA

Menlo Systems

MPB Communications

IMRA America

AdValue Photonics

Nuphoton Technologies

Spark Lasers

Shenzhen JPT Opto-electronics

NPI Lasers

Litilit

Fluence Technology

Calmar Laser

Amonics

Avesta

Clark-MXR

Cycle Lasers

Irisiome Solutions

#### Key Questions Answered:

1. How big is the global Ultrafast Picosecond and Femtosecond Fiber Laser market?
2. What is the demand of the global Ultrafast Picosecond and Femtosecond Fiber Laser market?
3. What is the year over year growth of the global Ultrafast Picosecond and Femtosecond Fiber Laser market?
4. What is the production and production value of the global Ultrafast Picosecond and Femtosecond Fiber Laser market?
5. Who are the key producers in the global Ultrafast Picosecond and Femtosecond Fiber Laser market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Ultrafast Picosecond and Femtosecond Fiber Laser Introduction
- 1.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Supply & Forecast
  - 1.2.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value (2021 & 2025 & 2032)
  - 1.2.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032)
  - 1.2.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Pricing Trends (2021-2032)
- 1.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Region (Based on Production Site)
  - 1.3.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Region (2021-2032)
  - 1.3.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Region (2021-2032)
  - 1.3.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Region (2021-2032)
  - 1.3.4 North America Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032)
  - 1.3.5 Europe Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032)
  - 1.3.6 China Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032)
  - 1.3.7 Japan Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Ultrafast Picosecond and Femtosecond Fiber Laser Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Ultrafast Picosecond and Femtosecond Fiber Laser Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Demand (2021-2032)
- 2.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption by Region
  - 2.2.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption by Region (2021-2026)
  - 2.2.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Forecast by Region (2027-2032)

2.3 United States Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

2.4 China Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

2.5 Europe Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

2.6 Japan Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

2.7 South Korea Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

2.8 ASEAN Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

2.9 India Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Manufacturer (2021-2026)

3.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Manufacturer (2021-2026)

3.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Manufacturer (2021-2026)

3.4 Ultrafast Picosecond and Femtosecond Fiber Laser Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Ultrafast Picosecond and Femtosecond Fiber Laser Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Ultrafast Picosecond and Femtosecond Fiber Laser in 2025

3.5.3 Global Concentration Ratios (CR8) for Ultrafast Picosecond and Femtosecond Fiber Laser in 2025

3.6 Ultrafast Picosecond and Femtosecond Fiber Laser Market: Overall Company Footprint Analysis

3.6.1 Ultrafast Picosecond and Femtosecond Fiber Laser Market: Region Footprint

3.6.2 Ultrafast Picosecond and Femtosecond Fiber Laser Market: Company Product Type Footprint

3.6.3 Ultrafast Picosecond and Femtosecond Fiber Laser Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

## **4 UNITED STATES VS CHINA VS REST OF THE WORLD**

4.1 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Comparison

4.1.1 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Comparison

4.2.1 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Comparison

4.3.1 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value (2021-2026)

4.4.3 United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2026)

4.5 China Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers and Market Share

4.5.1 China Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value (2021-2026)

4.5.3 China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2026)

4.6 Rest of World Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Picosecond Fiber Lasers

5.2.2 Femtosecond Fiber Lasers

5.3 Market Segment by Type

5.3.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Type (2021-2032)

5.3.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Type (2021-2032)

5.3.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY OUTPUT WAVELENGTH**

6.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Market Size Overview by Output Wavelength: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Output Wavelength

6.2.1 Infrared Fiber Lasers

6.2.2 Green Fiber Lasers

6.2.3 Ultraviolet Fiber Lasers

6.2.4 Others

6.3 Market Segment by Output Wavelength

6.3.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Output Wavelength (2021-2032)

6.3.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by

Output Wavelength (2021-2032)

6.3.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Output Wavelength (2021-2032)

## **7 MARKET ANALYSIS BY GAIN MEDIUM**

7.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Market Size Overview by Gain Medium: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Gain Medium

7.2.1 Ytterbium-Doped Fiber Lasers

7.2.2 Erbium-Doped Fiber Lasers

7.2.3 Thulium-Doped Fiber Lasers

7.2.4 Others

7.3 Market Segment by Gain Medium

7.3.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Gain Medium (2021-2032)

7.3.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Gain Medium (2021-2032)

7.3.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Gain Medium (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Material Processing

8.2.2 Biomedical and Medical

8.2.3 Analytical and Imaging

8.2.4 Scientific Research

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Application (2021-2032)

8.3.2 World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Application (2021-2032)

8.3.3 World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

### 9.1 Coherent

#### 9.1.1 Coherent Details

#### 9.1.2 Coherent Major Business

#### 9.1.3 Coherent Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

#### 9.1.4 Coherent Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.1.5 Coherent Recent Developments/Updates

#### 9.1.6 Coherent Competitive Strengths & Weaknesses

### 9.2 TRUMPF

#### 9.2.1 TRUMPF Details

#### 9.2.2 TRUMPF Major Business

#### 9.2.3 TRUMPF Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

#### 9.2.4 TRUMPF Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.2.5 TRUMPF Recent Developments/Updates

#### 9.2.6 TRUMPF Competitive Strengths & Weaknesses

### 9.3 IPG Photonics

#### 9.3.1 IPG Photonics Details

#### 9.3.2 IPG Photonics Major Business

#### 9.3.3 IPG Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

#### 9.3.4 IPG Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.3.5 IPG Photonics Recent Developments/Updates

#### 9.3.6 IPG Photonics Competitive Strengths & Weaknesses

### 9.4 MKS Instruments

#### 9.4.1 MKS Instruments Details

#### 9.4.2 MKS Instruments Major Business

#### 9.4.3 MKS Instruments Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

#### 9.4.4 MKS Instruments Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.4.5 MKS Instruments Recent Developments/Updates

#### 9.4.6 MKS Instruments Competitive Strengths & Weaknesses

### 9.5 NKT Photonics

#### 9.5.1 NKT Photonics Details

#### 9.5.2 NKT Photonics Major Business

#### 9.5.3 NKT Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

#### 9.5.4 NKT Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.5.5 NKT Photonics Recent Developments/Updates

#### 9.5.6 NKT Photonics Competitive Strengths & Weaknesses

#### 9.6 Amplitude Laser

##### 9.6.1 Amplitude Laser Details

##### 9.6.2 Amplitude Laser Major Business

##### 9.6.3 Amplitude Laser Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

##### 9.6.4 Amplitude Laser Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

##### 9.6.5 Amplitude Laser Recent Developments/Updates

##### 9.6.6 Amplitude Laser Competitive Strengths & Weaknesses

#### 9.7 Wuhan Raycus

##### 9.7.1 Wuhan Raycus Details

##### 9.7.2 Wuhan Raycus Major Business

##### 9.7.3 Wuhan Raycus Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

##### 9.7.4 Wuhan Raycus Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

##### 9.7.5 Wuhan Raycus Recent Developments/Updates

##### 9.7.6 Wuhan Raycus Competitive Strengths & Weaknesses

#### 9.8 TOPTICA Photonics

##### 9.8.1 TOPTICA Photonics Details

##### 9.8.2 TOPTICA Photonics Major Business

##### 9.8.3 TOPTICA Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

##### 9.8.4 TOPTICA Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

##### 9.8.5 TOPTICA Photonics Recent Developments/Updates

##### 9.8.6 TOPTICA Photonics Competitive Strengths & Weaknesses

#### 9.9 H?BNER Photonics

##### 9.9.1 H?BNER Photonics Details

##### 9.9.2 H?BNER Photonics Major Business

##### 9.9.3 H?BNER Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product

and Services

9.9.4 H?BNER Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 H?BNER Photonics Recent Developments/Updates

9.9.6 H?BNER Photonics Competitive Strengths & Weaknesses

9.10 YSL Photonics

9.10.1 YSL Photonics Details

9.10.2 YSL Photonics Major Business

9.10.3 YSL Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

9.10.4 YSL Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 YSL Photonics Recent Developments/Updates

9.10.6 YSL Photonics Competitive Strengths & Weaknesses

9.11 Wuhan Huaray Precison Laser

9.11.1 Wuhan Huaray Precison Laser Details

9.11.2 Wuhan Huaray Precison Laser Major Business

9.11.3 Wuhan Huaray Precison Laser Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

9.11.4 Wuhan Huaray Precison Laser Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Wuhan Huaray Precison Laser Recent Developments/Updates

9.11.6 Wuhan Huaray Precison Laser Competitive Strengths & Weaknesses

9.12 EKSPLA

9.12.1 EKSPLA Details

9.12.2 EKSPLA Major Business

9.12.3 EKSPLA Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

9.12.4 EKSPLA Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 EKSPLA Recent Developments/Updates

9.12.6 EKSPLA Competitive Strengths & Weaknesses

9.13 Menlo Systems

9.13.1 Menlo Systems Details

9.13.2 Menlo Systems Major Business

9.13.3 Menlo Systems Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

9.13.4 Menlo Systems Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.13.5 Menlo Systems Recent Developments/Updates
- 9.13.6 Menlo Systems Competitive Strengths & Weaknesses
- 9.14 MPB Communications
  - 9.14.1 MPB Communications Details
  - 9.14.2 MPB Communications Major Business
  - 9.14.3 MPB Communications Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.14.4 MPB Communications Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.14.5 MPB Communications Recent Developments/Updates
  - 9.14.6 MPB Communications Competitive Strengths & Weaknesses
- 9.15 IMRA America
  - 9.15.1 IMRA America Details
  - 9.15.2 IMRA America Major Business
  - 9.15.3 IMRA America Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.15.4 IMRA America Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.15.5 IMRA America Recent Developments/Updates
  - 9.15.6 IMRA America Competitive Strengths & Weaknesses
- 9.16 AdValue Photonics
  - 9.16.1 AdValue Photonics Details
  - 9.16.2 AdValue Photonics Major Business
  - 9.16.3 AdValue Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.16.4 AdValue Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.16.5 AdValue Photonics Recent Developments/Updates
  - 9.16.6 AdValue Photonics Competitive Strengths & Weaknesses
- 9.17 Nuphoton Technologies
  - 9.17.1 Nuphoton Technologies Details
  - 9.17.2 Nuphoton Technologies Major Business
  - 9.17.3 Nuphoton Technologies Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.17.4 Nuphoton Technologies Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.17.5 Nuphoton Technologies Recent Developments/Updates
  - 9.17.6 Nuphoton Technologies Competitive Strengths & Weaknesses
- 9.18 Spark Lasers

- 9.18.1 Spark Lasers Details
- 9.18.2 Spark Lasers Major Business
- 9.18.3 Spark Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
- 9.18.4 Spark Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.18.5 Spark Lasers Recent Developments/Updates
- 9.18.6 Spark Lasers Competitive Strengths & Weaknesses
- 9.19 Shenzhen JPT Opto-electronics
- 9.19.1 Shenzhen JPT Opto-electronics Details
- 9.19.2 Shenzhen JPT Opto-electronics Major Business
- 9.19.3 Shenzhen JPT Opto-electronics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
- 9.19.4 Shenzhen JPT Opto-electronics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Shenzhen JPT Opto-electronics Recent Developments/Updates
- 9.19.6 Shenzhen JPT Opto-electronics Competitive Strengths & Weaknesses
- 9.20 NPI Lasers
- 9.20.1 NPI Lasers Details
- 9.20.2 NPI Lasers Major Business
- 9.20.3 NPI Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
- 9.20.4 NPI Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.20.5 NPI Lasers Recent Developments/Updates
- 9.20.6 NPI Lasers Competitive Strengths & Weaknesses
- 9.21 Lilit
- 9.21.1 Lilit Details
- 9.21.2 Lilit Major Business
- 9.21.3 Lilit Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
- 9.21.4 Lilit Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.21.5 Lilit Recent Developments/Updates
- 9.21.6 Lilit Competitive Strengths & Weaknesses
- 9.22 Fluence Technology
- 9.22.1 Fluence Technology Details
- 9.22.2 Fluence Technology Major Business
- 9.22.3 Fluence Technology Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

- 9.22.4 Fluence Technology Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.22.5 Fluence Technology Recent Developments/Updates
- 9.22.6 Fluence Technology Competitive Strengths & Weaknesses
- 9.23 Calmar Laser
  - 9.23.1 Calmar Laser Details
  - 9.23.2 Calmar Laser Major Business
  - 9.23.3 Calmar Laser Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.23.4 Calmar Laser Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.23.5 Calmar Laser Recent Developments/Updates
  - 9.23.6 Calmar Laser Competitive Strengths & Weaknesses
- 9.24 Amonics
  - 9.24.1 Amonics Details
  - 9.24.2 Amonics Major Business
  - 9.24.3 Amonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.24.4 Amonics Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.24.5 Amonics Recent Developments/Updates
  - 9.24.6 Amonics Competitive Strengths & Weaknesses
- 9.25 Avesta
  - 9.25.1 Avesta Details
  - 9.25.2 Avesta Major Business
  - 9.25.3 Avesta Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.25.4 Avesta Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.25.5 Avesta Recent Developments/Updates
  - 9.25.6 Avesta Competitive Strengths & Weaknesses
- 9.26 Clark-MXR
  - 9.26.1 Clark-MXR Details
  - 9.26.2 Clark-MXR Major Business
  - 9.26.3 Clark-MXR Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services
  - 9.26.4 Clark-MXR Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.26.5 Clark-MXR Recent Developments/Updates
  - 9.26.6 Clark-MXR Competitive Strengths & Weaknesses

## 9.27 Cycle Lasers

### 9.27.1 Cycle Lasers Details

### 9.27.2 Cycle Lasers Major Business

### 9.27.3 Cycle Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

### 9.27.4 Cycle Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.27.5 Cycle Lasers Recent Developments/Updates

### 9.27.6 Cycle Lasers Competitive Strengths & Weaknesses

## 9.28 Iriome Solutions

### 9.28.1 Iriome Solutions Details

### 9.28.2 Iriome Solutions Major Business

### 9.28.3 Iriome Solutions Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

### 9.28.4 Iriome Solutions Ultrafast Picosecond and Femtosecond Fiber Laser Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.28.5 Iriome Solutions Recent Developments/Updates

### 9.28.6 Iriome Solutions Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

### 10.1 Ultrafast Picosecond and Femtosecond Fiber Laser Industry Chain

### 10.2 Ultrafast Picosecond and Femtosecond Fiber Laser Upstream Analysis

#### 10.2.1 Ultrafast Picosecond and Femtosecond Fiber Laser Core Raw Materials

#### 10.2.2 Main Manufacturers of Ultrafast Picosecond and Femtosecond Fiber Laser Core Raw Materials

### 10.3 Midstream Analysis

### 10.4 Downstream Analysis

### 10.5 Ultrafast Picosecond and Femtosecond Fiber Laser Production Mode

### 10.6 Ultrafast Picosecond and Femtosecond Fiber Laser Procurement Model

### 10.7 Ultrafast Picosecond and Femtosecond Fiber Laser Industry Sales Model and Sales Channels

#### 10.7.1 Ultrafast Picosecond and Femtosecond Fiber Laser Sales Model

#### 10.7.2 Ultrafast Picosecond and Femtosecond Fiber Laser Typical Distributors

## 11 RESEARCH FINDINGS AND CONCLUSION

## 12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Region (2021-2026) & (USD Million)

Table 3. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Region (2027-2032) & (USD Million)

Table 4. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Region (2021-2026)

Table 5. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Region (2027-2032)

Table 6. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Region (2021-2026) & (Units)

Table 7. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Region (2027-2032) & (Units)

Table 8. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Region (2021-2026)

Table 9. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Region (2027-2032)

Table 10. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Region (2021-2026) & (K US\$/Unit)

Table 11. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Region (2027-2032) & (K US\$/Unit)

Table 12. Ultrafast Picosecond and Femtosecond Fiber Laser Major Market Trends

Table 13. World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption by Region (2021-2026) & (Units)

Table 15. World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Ultrafast Picosecond and Femtosecond Fiber Laser Producers in 2025

Table 18. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Ultrafast Picosecond and Femtosecond Fiber Laser Producers in 2025

Table 20. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Manufacturer (2021-2026) & (K US\$/Unit)

Table 21. Global Ultrafast Picosecond and Femtosecond Fiber Laser Company Evaluation Quadrant

Table 22. World Ultrafast Picosecond and Femtosecond Fiber Laser Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Ultrafast Picosecond and Femtosecond Fiber Laser Production Site of Key Manufacturer

Table 24. Ultrafast Picosecond and Femtosecond Fiber Laser Market: Company Product Type Footprint

Table 25. Ultrafast Picosecond and Femtosecond Fiber Laser Market: Company Product Application Footprint

Table 26. Ultrafast Picosecond and Femtosecond Fiber Laser Competitive Factors

Table 27. Ultrafast Picosecond and Femtosecond Fiber Laser New Entrant and Capacity Expansion Plans

Table 28. Ultrafast Picosecond and Femtosecond Fiber Laser Mergers & Acquisitions Activity

Table 29. United States VS China Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Ultrafast Picosecond and Femtosecond Fiber Laser Production Comparison, (2021 & 2025 & 2032) & (Units)

Table 31. United States VS China Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share (2021-2026)

Table 37. China Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share (2021-2026)

Table 42. Rest of World Based Ultrafast Picosecond and Femtosecond Fiber Laser Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share (2021-2026)

Table 47. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Type (2021-2026) & (Units)

Table 49. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Type (2027-2032) & (Units)

Table 50. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Type (2021-2026) & (USD Million)

Table 51. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Type (2027-2032) & (USD Million)

Table 52. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Type (2021-2026) & (K US\$/Unit)

Table 53. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Type (2027-2032) & (K US\$/Unit)

Table 54. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Output Wavelength, (USD Million), 2021 & 2025 & 2032

Table 55. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Output Wavelength (2021-2026) & (Units)

Table 56. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Output Wavelength (2027-2032) & (Units)

Table 57. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Output Wavelength (2021-2026) & (USD Million)

Table 58. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value

by Output Wavelength (2027-2032) & (USD Million)

Table 59. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Output Wavelength (2021-2026) & (K US\$/Unit)

Table 60. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Output Wavelength (2027-2032) & (K US\$/Unit)

Table 61. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Gain Medium, (USD Million), 2021 & 2025 & 2032

Table 62. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Gain Medium (2021-2026) & (Units)

Table 63. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Gain Medium (2027-2032) & (Units)

Table 64. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Gain Medium (2021-2026) & (USD Million)

Table 65. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Gain Medium (2027-2032) & (USD Million)

Table 66. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Gain Medium (2021-2026) & (K US\$/Unit)

Table 67. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Gain Medium (2027-2032) & (K US\$/Unit)

Table 68. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Application (2021-2026) & (Units)

Table 70. World Ultrafast Picosecond and Femtosecond Fiber Laser Production by Application (2027-2032) & (Units)

Table 71. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Application (2021-2026) & (USD Million)

Table 72. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Application (2027-2032) & (USD Million)

Table 73. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Application (2021-2026) & (K US\$/Unit)

Table 74. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Application (2027-2032) & (K US\$/Unit)

Table 75. Coherent Basic Information, Manufacturing Base and Competitors

Table 76. Coherent Major Business

Table 77. Coherent Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 78. Coherent Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 79. Coherent Recent Developments/Updates

Table 80. Coherent Competitive Strengths & Weaknesses

Table 81. TRUMPF Basic Information, Manufacturing Base and Competitors

Table 82. TRUMPF Major Business

Table 83. TRUMPF Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 84. TRUMPF Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. TRUMPF Recent Developments/Updates

Table 86. TRUMPF Competitive Strengths & Weaknesses

Table 87. IPG Photonics Basic Information, Manufacturing Base and Competitors

Table 88. IPG Photonics Major Business

Table 89. IPG Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 90. IPG Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. IPG Photonics Recent Developments/Updates

Table 92. IPG Photonics Competitive Strengths & Weaknesses

Table 93. MKS Instruments Basic Information, Manufacturing Base and Competitors

Table 94. MKS Instruments Major Business

Table 95. MKS Instruments Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 96. MKS Instruments Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. MKS Instruments Recent Developments/Updates

Table 98. MKS Instruments Competitive Strengths & Weaknesses

Table 99. NKT Photonics Basic Information, Manufacturing Base and Competitors

Table 100. NKT Photonics Major Business

Table 101. NKT Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 102. NKT Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. NKT Photonics Recent Developments/Updates

Table 104. NKT Photonics Competitive Strengths & Weaknesses

Table 105. Amplitude Laser Basic Information, Manufacturing Base and Competitors

Table 106. Amplitude Laser Major Business

Table 107. Amplitude Laser Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 108. Amplitude Laser Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Amplitude Laser Recent Developments/Updates

Table 110. Amplitude Laser Competitive Strengths & Weaknesses

Table 111. Wuhan Raycus Basic Information, Manufacturing Base and Competitors

Table 112. Wuhan Raycus Major Business

Table 113. Wuhan Raycus Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 114. Wuhan Raycus Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Wuhan Raycus Recent Developments/Updates

Table 116. Wuhan Raycus Competitive Strengths & Weaknesses

Table 117. TOPTICA Photonics Basic Information, Manufacturing Base and Competitors

Table 118. TOPTICA Photonics Major Business

Table 119. TOPTICA Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 120. TOPTICA Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. TOPTICA Photonics Recent Developments/Updates

Table 122. TOPTICA Photonics Competitive Strengths & Weaknesses

Table 123. H?BNER Photonics Basic Information, Manufacturing Base and Competitors

Table 124. H?BNER Photonics Major Business

Table 125. H?BNER Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 126. H?BNER Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. H?BNER Photonics Recent Developments/Updates

Table 128. H?BNER Photonics Competitive Strengths & Weaknesses

Table 129. YSL Photonics Basic Information, Manufacturing Base and Competitors

Table 130. YSL Photonics Major Business

Table 131. YSL Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 132. YSL Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. YSL Photonics Recent Developments/Updates

Table 134. YSL Photonics Competitive Strengths & Weaknesses

Table 135. Wuhan Huaray Precison Laser Basic Information, Manufacturing Base and Competitors

Table 136. Wuhan Huaray Precison Laser Major Business

Table 137. Wuhan Huaray Precison Laser Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 138. Wuhan Huaray Precison Laser Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Wuhan Huaray Precison Laser Recent Developments/Updates

Table 140. Wuhan Huaray Precison Laser Competitive Strengths & Weaknesses

Table 141. EKSPLA Basic Information, Manufacturing Base and Competitors

Table 142. EKSPLA Major Business

Table 143. EKSPLA Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 144. EKSPLA Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. EKSPLA Recent Developments/Updates

Table 146. EKSPLA Competitive Strengths & Weaknesses

Table 147. Menlo Systems Basic Information, Manufacturing Base and Competitors

Table 148. Menlo Systems Major Business

Table 149. Menlo Systems Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 150. Menlo Systems Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Menlo Systems Recent Developments/Updates

Table 152. Menlo Systems Competitive Strengths & Weaknesses

Table 153. MPB Communications Basic Information, Manufacturing Base and Competitors

Table 154. MPB Communications Major Business

Table 155. MPB Communications Ultrafast Picosecond and Femtosecond Fiber Laser

## Product and Services

Table 156. MPB Communications Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. MPB Communications Recent Developments/Updates

Table 158. MPB Communications Competitive Strengths & Weaknesses

Table 159. IMRA America Basic Information, Manufacturing Base and Competitors

Table 160. IMRA America Major Business

Table 161. IMRA America Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 162. IMRA America Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. IMRA America Recent Developments/Updates

Table 164. IMRA America Competitive Strengths & Weaknesses

Table 165. AdValue Photonics Basic Information, Manufacturing Base and Competitors

Table 166. AdValue Photonics Major Business

Table 167. AdValue Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 168. AdValue Photonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. AdValue Photonics Recent Developments/Updates

Table 170. AdValue Photonics Competitive Strengths & Weaknesses

Table 171. Nuphoton Technologies Basic Information, Manufacturing Base and Competitors

Table 172. Nuphoton Technologies Major Business

Table 173. Nuphoton Technologies Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 174. Nuphoton Technologies Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. Nuphoton Technologies Recent Developments/Updates

Table 176. Nuphoton Technologies Competitive Strengths & Weaknesses

Table 177. Spark Lasers Basic Information, Manufacturing Base and Competitors

Table 178. Spark Lasers Major Business

Table 179. Spark Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 180. Spark Lasers Ultrafast Picosecond and Femtosecond Fiber Laser

Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Spark Lasers Recent Developments/Updates

Table 182. Spark Lasers Competitive Strengths & Weaknesses

Table 183. Shenzhen JPT Opto-electronics Basic Information, Manufacturing Base and Competitors

Table 184. Shenzhen JPT Opto-electronics Major Business

Table 185. Shenzhen JPT Opto-electronics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 186. Shenzhen JPT Opto-electronics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Shenzhen JPT Opto-electronics Recent Developments/Updates

Table 188. Shenzhen JPT Opto-electronics Competitive Strengths & Weaknesses

Table 189. NPI Lasers Basic Information, Manufacturing Base and Competitors

Table 190. NPI Lasers Major Business

Table 191. NPI Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 192. NPI Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 193. NPI Lasers Recent Developments/Updates

Table 194. NPI Lasers Competitive Strengths & Weaknesses

Table 195. Litilit Basic Information, Manufacturing Base and Competitors

Table 196. Litilit Major Business

Table 197. Litilit Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 198. Litilit Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 199. Litilit Recent Developments/Updates

Table 200. Litilit Competitive Strengths & Weaknesses

Table 201. Fluence Technology Basic Information, Manufacturing Base and Competitors

Table 202. Fluence Technology Major Business

Table 203. Fluence Technology Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 204. Fluence Technology Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2021-2026)

Table 205. Fluence Technology Recent Developments/Updates

Table 206. Fluence Technology Competitive Strengths & Weaknesses

Table 207. Calmar Laser Basic Information, Manufacturing Base and Competitors

Table 208. Calmar Laser Major Business

Table 209. Calmar Laser Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 210. Calmar Laser Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 211. Calmar Laser Recent Developments/Updates

Table 212. Calmar Laser Competitive Strengths & Weaknesses

Table 213. Amonics Basic Information, Manufacturing Base and Competitors

Table 214. Amonics Major Business

Table 215. Amonics Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 216. Amonics Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 217. Amonics Recent Developments/Updates

Table 218. Amonics Competitive Strengths & Weaknesses

Table 219. Avesta Basic Information, Manufacturing Base and Competitors

Table 220. Avesta Major Business

Table 221. Avesta Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 222. Avesta Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 223. Avesta Recent Developments/Updates

Table 224. Avesta Competitive Strengths & Weaknesses

Table 225. Clark-MXR Basic Information, Manufacturing Base and Competitors

Table 226. Clark-MXR Major Business

Table 227. Clark-MXR Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 228. Clark-MXR Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 229. Clark-MXR Recent Developments/Updates

Table 230. Clark-MXR Competitive Strengths & Weaknesses

Table 231. Cycle Lasers Basic Information, Manufacturing Base and Competitors

Table 232. Cycle Lasers Major Business

Table 233. Cycle Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 234. Cycle Lasers Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 235. Cycle Lasers Recent Developments/Updates

Table 236. Cycle Lasers Competitive Strengths & Weaknesses

Table 237. Iriome Solutions Basic Information, Manufacturing Base and Competitors

Table 238. Iriome Solutions Major Business

Table 239. Iriome Solutions Ultrafast Picosecond and Femtosecond Fiber Laser Product and Services

Table 240. Iriome Solutions Ultrafast Picosecond and Femtosecond Fiber Laser Production (Units), Price (K US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 241. Iriome Solutions Recent Developments/Updates

Table 242. Iriome Solutions Competitive Strengths & Weaknesses

Table 243. Global Key Players of Ultrafast Picosecond and Femtosecond Fiber Laser Upstream (Raw Materials)

Table 244. Global Ultrafast Picosecond and Femtosecond Fiber Laser Typical Customers

Table 245. Ultrafast Picosecond and Femtosecond Fiber Laser Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Ultrafast Picosecond and Femtosecond Fiber Laser Picture

Figure 2. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032) & (Units)

Figure 5. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price (2021-2032) & (K US\$/Unit)

Figure 6. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Region (2021-2032)

Figure 7. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Region (2021-2032)

Figure 8. North America Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032) & (Units)

Figure 9. Europe Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032) & (Units)

Figure 10. China Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032) & (Units)

Figure 11. Japan Ultrafast Picosecond and Femtosecond Fiber Laser Production (2021-2032) & (Units)

Figure 12. Ultrafast Picosecond and Femtosecond Fiber Laser Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)

Figure 15. World Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Market Share by Region (2021-2032)

Figure 16. United States Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)

Figure 17. China Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)

Figure 18. Europe Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)

Figure 19. Japan Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)

- Figure 20. South Korea Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)
- Figure 21. ASEAN Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)
- Figure 22. India Ultrafast Picosecond and Femtosecond Fiber Laser Consumption (2021-2032) & (Units)
- Figure 23. Producer Shipments of Ultrafast Picosecond and Femtosecond Fiber Laser by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Ultrafast Picosecond and Femtosecond Fiber Laser Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Ultrafast Picosecond and Femtosecond Fiber Laser Markets in 2025
- Figure 26. United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 27. United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 28. United States VS China: Ultrafast Picosecond and Femtosecond Fiber Laser Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share 2025
- Figure 30. China Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share 2025
- Figure 31. Rest of World Based Manufacturers Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share 2025
- Figure 32. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 33. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Type in 2025
- Figure 34. Picosecond Fiber Lasers
- Figure 35. Femtosecond Fiber Lasers
- Figure 36. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Type (2021-2032)
- Figure 37. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Type (2021-2032)
- Figure 38. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Type (2021-2032) & (K US\$/Unit)
- Figure 39. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Output Wavelength, (USD Million), 2021 & 2025 & 2032
- Figure 40. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value

## Market Share by Output Wavelength in 2025

Figure 41. Infrared Fiber Lasers

Figure 42. Green Fiber Lasers

Figure 43. Ultraviolet Fiber Lasers

Figure 44. Others

Figure 45. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Output Wavelength (2021-2032)

Figure 46. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Output Wavelength (2021-2032)

Figure 47. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Output Wavelength (2021-2032) & (K US\$/Unit)

Figure 48. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Gain Medium, (USD Million), 2021 & 2025 & 2032

Figure 49. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Gain Medium in 2025

Figure 50. Ytterbium-Doped Fiber Lasers

Figure 51. Erbium-Doped Fiber Lasers

Figure 52. Thulium-Doped Fiber Lasers

Figure 53. Others

Figure 54. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Gain Medium (2021-2032)

Figure 55. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Gain Medium (2021-2032)

Figure 56. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by Gain Medium (2021-2032) & (K US\$/Unit)

Figure 57. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Application in 2025

Figure 59. Material Processing

Figure 60. Biomedical and Medical

Figure 61. Analytical and Imaging

Figure 62. Scientific Research

Figure 63. Others

Figure 64. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Market Share by Application (2021-2032)

Figure 65. World Ultrafast Picosecond and Femtosecond Fiber Laser Production Value Market Share by Application (2021-2032)

Figure 66. World Ultrafast Picosecond and Femtosecond Fiber Laser Average Price by

Application (2021-2032) & (K US\$/Unit)

Figure 67. Ultrafast Picosecond and Femtosecond Fiber Laser Industry Chain

Figure 68. Ultrafast Picosecond and Femtosecond Fiber Laser Procurement Model

Figure 69. Ultrafast Picosecond and Femtosecond Fiber Laser Sales Model

Figure 70. Ultrafast Picosecond and Femtosecond Fiber Laser Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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