

Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market Growth 2026-2032

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Abstracts

The global Fixed-Wavelength External-Cavity Semiconductor Lasers market size is predicted to grow from US\$ 611 million in 2025 to US\$ 1043 million in 2032; it is expected to grow at a CAGR of 8.0% from 2026 to 2032.

Fixed-wavelength external-cavity semiconductor lasers are semiconductor-gain-based laser devices, modules and systems in which the effective optical resonator or wavelength-selective feedback path is extended outside the semiconductor chip through external optical elements such as diffraction gratings, volume Bragg gratings, volume holographic gratings, fiber Bragg gratings, ultra-narrow interference filters, mirrors, cat-eye resonators or MEMS-driven reflective gratings. By introducing external wavelength selection and feedback, these lasers provide single-frequency operation, narrow linewidth, low phase noise, wavelength locking, fixed set-point emission or pre-defined wavelength output. The product scope mainly covers laboratory ECDL systems, butterfly-packaged miniECL devices, VBG/VHG-stabilized diode laser modules, integrated 1550 nm narrow-linewidth external-cavity sources, and external-cavity QCL/ICL systems for mid-infrared applications. Key specifications include center wavelength, linewidth, side-mode suppression ratio, frequency stability, power stability, mode-hop-free range, lockability, output power, polarization and fiber-coupling format. Major applications include quantum technologies, atomic clocks, atom interferometry, laser cooling, Raman spectroscopy, absorption spectroscopy, coherent communications, FMCW LiDAR, photonic integrated circuit testing, mid-infrared chemical sensing and high-power laser pumping.

Based on our research, fixed-wavelength external-cavity semiconductor lasers should be treated as a high-value precision photonics niche rather than as a broad semiconductor laser category. The core value of this market lies in extending the optical

resonator or feedback path beyond the semiconductor gain chip to achieve narrow linewidth, lower phase noise, wavelength locking and stable set-point operation. The main technology routes include Littrow and Littman-Metcalf grating ECDLs, VBG/VHG-stabilized diode lasers, FBG-stabilized diode modules, interference-filter or cat-eye ECDLs, and external-cavity QCL/ICL systems for mid-infrared applications. This is a smaller market than the broad tunable laser or semiconductor laser market, but it carries higher technical barriers and higher application value because customers purchase stability, coherence, lockability and spectral purity rather than optical power alone.

Demand growth is mainly driven by quantum technologies, atomic clocks, laser cooling, Raman spectroscopy, coherent LiDAR, photonic integrated circuit testing, coherent communications and mid-infrared chemical sensing. The market outlook is positive but not linear: laboratory ECDL demand is stable and project-driven, VBG/VHG modules benefit from instrument miniaturization and Raman deployment, EC-QCL systems benefit from mid-infrared analytical instrumentation, while integrated 1.3-1.6 μm external-cavity sources are pulled by coherent detection and LiDAR. The main substitution risks come from improved DFB/DBR lasers, integrated silicon photonic external-cavity lasers and narrow-linewidth fiber lasers. However, external-cavity semiconductor lasers retain a distinct role where broad wavelength availability, line locking, low phase noise and flexible spectral engineering are more important than unit cost alone.

LP Information, Inc. (LPI) ' newest research report, the "Fixed-Wavelength External-Cavity Semiconductor Lasers Industry Forecast" looks at past sales and reviews total world Fixed-Wavelength External-Cavity Semiconductor Lasers sales in 2025, providing a comprehensive analysis by region and market sector of projected Fixed-Wavelength External-Cavity Semiconductor Lasers sales for 2026 through 2032. With Fixed-Wavelength External-Cavity Semiconductor Lasers sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Fixed-Wavelength External-Cavity Semiconductor Lasers industry.

This Insight Report provides a comprehensive analysis of the global Fixed-Wavelength External-Cavity Semiconductor Lasers landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Fixed-Wavelength External-Cavity Semiconductor Lasers portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an

accelerating global Fixed-Wavelength External-Cavity Semiconductor Lasers market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Fixed-Wavelength External-Cavity Semiconductor Lasers and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Fixed-Wavelength External-Cavity Semiconductor Lasers.

This report presents a comprehensive overview, market shares, and growth opportunities of Fixed-Wavelength External-Cavity Semiconductor Lasers market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

External-Cavity Diode Laser Systems

External-Cavity QCL / ICL Systems

Other

Segmentation by Output Power Class:

Low-Power Precision Laser

Medium-Power Laser

High-Power Stabilized Laser

Application-Specific Power Class

Segmentation by Wavelength Range:

UV / Violet / Blue

Visible

Near-Infrared

Telecom Band

SWIR / Mid-Infrared

Segmentation by External-Cavity Technology:

Diffraction-Grating ECDL

VBG / VHG-Stabilized Laser

FBG-Stabilized Laser

Other External-Cavity Structures

Segmentation by Application:

Quantum Technology & Atomic Physics

Coherent Communication & LiDAR

Photonic Integrated Circuit Testing

Mid-IR Gas & Chemical Sensing

Pumping & Industrial Use

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Coherent Corp.

MKS Instruments, Inc.

Leonardo DRS, Inc.

Hamamatsu Photonics K.K.

Ushio Inc.

Thorlabs, Inc.

TOPTICA Photonics SE

Santec Holdings Corporation

EXFO Inc.

nLIGHT, Inc.

BWT Beijing Ltd.

Sacher Lasertechnik GmbH

Luna Innovations Incorporated

Alpes Lasers SA

Block Engineering, LLC

AOSense, Inc.

SemiNex Corporation

Chilas B.V.

Zhejiang Faraday Laser Technology Co., Ltd.

Spectra-Line Photonics (Wuhan) Co., Ltd.

Semiconductor Laser LTD

Key Questions Addressed in this Report

What is the 10-year outlook for the global Fixed-Wavelength External-Cavity Semiconductor Lasers market?

What factors are driving Fixed-Wavelength External-Cavity Semiconductor Lasers market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Fixed-Wavelength External-Cavity Semiconductor Lasers market opportunities vary by end market size?

How does Fixed-Wavelength External-Cavity Semiconductor Lasers break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for Fixed-Wavelength External-Cavity Semiconductor Lasers by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for Fixed-Wavelength External-Cavity Semiconductor Lasers by Country/Region, 2021, 2025 & 2032

2.2 Fixed-Wavelength External-Cavity Semiconductor Lasers Segment by Type

2.2.1 External-Cavity Diode Laser Systems

2.2.2 External-Cavity QCL / ICL Systems

2.2.3 Other

2.2.4 Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type

2.2.4.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type (2021-2026)

2.2.4.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue and Market Share by Type (2021-2026)

2.2.4.3 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Type (2021-2026)

2.3 Fixed-Wavelength External-Cavity Semiconductor Lasers Segment by Output Power Class

2.3.1 Low-Power Precision Laser

2.3.2 Medium-Power Laser

2.3.3 High-Power Stabilized Laser

2.3.4 Application-Specific Power Class

2.3.5 Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Output Power Class

2.3.5.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Output Power Class (2021-2026)

2.3.5.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue and Market Share by Output Power Class (2021-2026)

2.3.5.3 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Output Power Class (2021-2026)

2.4 Fixed-Wavelength External-Cavity Semiconductor Lasers Segment by Wavelength Range

2.4.1 UV / Violet / Blue

2.4.2 Visible

2.4.3 Near-Infrared

2.4.4 Telecom Band

2.4.5 SWIR / Mid-Infrared

2.4.6 Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Wavelength Range

2.4.6.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Wavelength Range (2021-2026)

2.4.6.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue and Market Share by Wavelength Range (2021-2026)

2.4.6.3 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Wavelength Range (2021-2026)

2.5 Fixed-Wavelength External-Cavity Semiconductor Lasers Segment by External-Cavity Technology

2.5.1 Diffraction-Grating ECDL

2.5.2 VBG / VHG-Stabilized Laser

2.5.3 FBG-Stabilized Laser

2.5.4 Other External-Cavity Structures

2.5.5 Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by External-Cavity Technology

2.5.5.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by External-Cavity Technology (2021-2026)

2.5.5.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue and Market Share by External-Cavity Technology (2021-2026)

2.5.5.3 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by External-Cavity Technology (2021-2026)

2.6 Fixed-Wavelength External-Cavity Semiconductor Lasers Segment by Application

2.6.1 Quantum Technology & Atomic Physics

2.6.2 Coherent Communication & LiDAR

2.6.3 Photonic Integrated Circuit Testing

2.6.4 Mid-IR Gas & Chemical Sensing

2.6.5 Pumping & Industrial Use

2.6.6 Other

2.6.7 Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application

2.6.7.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Market Share by Application (2021-2026)

2.6.7.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue and Market Share by Application (2021-2026)

2.6.7.3 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Breakdown Data by Company

3.1.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Sales by Company (2021-2026)

3.1.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Company (2021-2026)

3.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Revenue by Company (2021-2026)

3.2.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Company (2021-2026)

3.2.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Company (2021-2026)

3.3 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Company

3.4 Key Manufacturers Fixed-Wavelength External-Cavity Semiconductor Lasers Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Fixed-Wavelength External-Cavity Semiconductor Lasers Product Location Distribution

3.4.2 Players Fixed-Wavelength External-Cavity Semiconductor Lasers Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR FIXED-WAVELENGTH EXTERNAL-CAVITY SEMICONDUCTOR LASERS BY GEOGRAPHIC REGION

4.1 World Historic Fixed-Wavelength External-Cavity Semiconductor Lasers Market Size by Geographic Region (2021-2026)

4.1.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Fixed-Wavelength External-Cavity Semiconductor Lasers Market Size by Country/Region (2021-2026)

4.2.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Sales by Country/Region (2021-2026)

4.2.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Revenue by Country/Region (2021-2026)

4.3 Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Growth

4.4 APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Growth

4.5 Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Growth

4.6 Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Growth

5 AMERICAS

5.1 Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country

5.1.1 Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country (2021-2026)

5.1.2 Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Country (2021-2026)

5.2 Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026)

5.3 Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Region

6.1.1 APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Region (2021-2026)

6.1.2 APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Region (2021-2026)

6.2 APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026)

6.3 APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Fixed-Wavelength External-Cavity Semiconductor Lasers by Country

7.1.1 Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country (2021-2026)

7.1.2 Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Country (2021-2026)

7.2 Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026)

7.3 Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers by Country

8.1.1 Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country (2021-2026)

8.1.2 Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Country (2021-2026)

8.2 Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026)

8.3 Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Fixed-Wavelength External-Cavity Semiconductor Lasers

10.3 Manufacturing Process Analysis of Fixed-Wavelength External-Cavity Semiconductor Lasers

10.4 Industry Chain Structure of Fixed-Wavelength External-Cavity Semiconductor Lasers

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Fixed-Wavelength External-Cavity Semiconductor Lasers Distributors

11.3 Fixed-Wavelength External-Cavity Semiconductor Lasers Customer

12 WORLD FORECAST REVIEW FOR FIXED-WAVELENGTH EXTERNAL-CAVITY SEMICONDUCTOR LASERS BY GEOGRAPHIC REGION

12.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market Size Forecast by Region

12.1.1 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Forecast by Region (2027-2032)

12.1.2 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Forecast by Type (2027-2032)

12.7 Global Fixed-Wavelength External-Cavity Semiconductor Lasers Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Coherent Corp.

13.1.1 Coherent Corp. Company Information

13.1.2 Coherent Corp. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.1.3 Coherent Corp. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Coherent Corp. Main Business Overview

13.1.5 Coherent Corp. Latest Developments

13.2 MKS Instruments, Inc.

13.2.1 MKS Instruments, Inc. Company Information

13.2.2 MKS Instruments, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.2.3 MKS Instruments, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 MKS Instruments, Inc. Main Business Overview

13.2.5 MKS Instruments, Inc. Latest Developments

13.3 Leonardo DRS, Inc.

13.3.1 Leonardo DRS, Inc. Company Information

13.3.2 Leonardo DRS, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.3.3 Leonardo DRS, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Leonardo DRS, Inc. Main Business Overview

13.3.5 Leonardo DRS, Inc. Latest Developments

13.4 Hamamatsu Photonics K.K.

13.4.1 Hamamatsu Photonics K.K. Company Information

13.4.2 Hamamatsu Photonics K.K. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.4.3 Hamamatsu Photonics K.K. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Hamamatsu Photonics K.K. Main Business Overview

13.4.5 Hamamatsu Photonics K.K. Latest Developments

13.5 Ushio Inc.

13.5.1 Ushio Inc. Company Information

13.5.2 Ushio Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.5.3 Ushio Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Ushio Inc. Main Business Overview

13.5.5 Ushio Inc. Latest Developments

13.6 Thorlabs, Inc.

13.6.1 Thorlabs, Inc. Company Information

13.6.2 Thorlabs, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.6.3 Thorlabs, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Thorlabs, Inc. Main Business Overview

13.6.5 Thorlabs, Inc. Latest Developments

13.7 TOPTICA Photonics SE

13.7.1 TOPTICA Photonics SE Company Information

13.7.2 TOPTICA Photonics SE Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.7.3 TOPTICA Photonics SE Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 TOPTICA Photonics SE Main Business Overview

13.7.5 TOPTICA Photonics SE Latest Developments

13.8 Santec Holdings Corporation

- 13.8.1 Santec Holdings Corporation Company Information
- 13.8.2 Santec Holdings Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
- 13.8.3 Santec Holdings Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.8.4 Santec Holdings Corporation Main Business Overview
- 13.8.5 Santec Holdings Corporation Latest Developments
- 13.9 EXFO Inc.
 - 13.9.1 EXFO Inc. Company Information
 - 13.9.2 EXFO Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.9.3 EXFO Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 EXFO Inc. Main Business Overview
 - 13.9.5 EXFO Inc. Latest Developments
- 13.10 nLIGHT, Inc.
 - 13.10.1 nLIGHT, Inc. Company Information
 - 13.10.2 nLIGHT, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.10.3 nLIGHT, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 nLIGHT, Inc. Main Business Overview
 - 13.10.5 nLIGHT, Inc. Latest Developments
- 13.11 BWT Beijing Ltd.
 - 13.11.1 BWT Beijing Ltd. Company Information
 - 13.11.2 BWT Beijing Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.11.3 BWT Beijing Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 BWT Beijing Ltd. Main Business Overview
 - 13.11.5 BWT Beijing Ltd. Latest Developments
- 13.12 Sacher Lasertechnik GmbH
 - 13.12.1 Sacher Lasertechnik GmbH Company Information
 - 13.12.2 Sacher Lasertechnik GmbH Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.12.3 Sacher Lasertechnik GmbH Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Sacher Lasertechnik GmbH Main Business Overview
 - 13.12.5 Sacher Lasertechnik GmbH Latest Developments

13.13 Luna Innovations Incorporated

13.13.1 Luna Innovations Incorporated Company Information

13.13.2 Luna Innovations Incorporated Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.13.3 Luna Innovations Incorporated Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Luna Innovations Incorporated Main Business Overview

13.13.5 Luna Innovations Incorporated Latest Developments

13.14 Alpes Lasers SA

13.14.1 Alpes Lasers SA Company Information

13.14.2 Alpes Lasers SA Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.14.3 Alpes Lasers SA Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Alpes Lasers SA Main Business Overview

13.14.5 Alpes Lasers SA Latest Developments

13.15 Block Engineering, LLC

13.15.1 Block Engineering, LLC Company Information

13.15.2 Block Engineering, LLC Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.15.3 Block Engineering, LLC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Block Engineering, LLC Main Business Overview

13.15.5 Block Engineering, LLC Latest Developments

13.16 AOSense, Inc.

13.16.1 AOSense, Inc. Company Information

13.16.2 AOSense, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.16.3 AOSense, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 AOSense, Inc. Main Business Overview

13.16.5 AOSense, Inc. Latest Developments

13.17 SemiNex Corporation

13.17.1 SemiNex Corporation Company Information

13.17.2 SemiNex Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

13.17.3 SemiNex Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 SemiNex Corporation Main Business Overview

- 13.17.5 SemiNex Corporation Latest Developments
- 13.18 Chilas B.V.
 - 13.18.1 Chilas B.V. Company Information
 - 13.18.2 Chilas B.V. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.18.3 Chilas B.V. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.18.4 Chilas B.V. Main Business Overview
 - 13.18.5 Chilas B.V. Latest Developments
- 13.19 Zhejiang Faraday Laser Technology Co., Ltd.
 - 13.19.1 Zhejiang Faraday Laser Technology Co., Ltd. Company Information
 - 13.19.2 Zhejiang Faraday Laser Technology Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.19.3 Zhejiang Faraday Laser Technology Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.19.4 Zhejiang Faraday Laser Technology Co., Ltd. Main Business Overview
 - 13.19.5 Zhejiang Faraday Laser Technology Co., Ltd. Latest Developments
- 13.20 Spectra-Line Photonics (Wuhan) Co., Ltd.
 - 13.20.1 Spectra-Line Photonics (Wuhan) Co., Ltd. Company Information
 - 13.20.2 Spectra-Line Photonics (Wuhan) Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.20.3 Spectra-Line Photonics (Wuhan) Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.20.4 Spectra-Line Photonics (Wuhan) Co., Ltd. Main Business Overview
 - 13.20.5 Spectra-Line Photonics (Wuhan) Co., Ltd. Latest Developments
- 13.21 Semiconductor Laser LTD
 - 13.21.1 Semiconductor Laser LTD Company Information
 - 13.21.2 Semiconductor Laser LTD Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications
 - 13.21.3 Semiconductor Laser LTD Fixed-Wavelength External-Cavity Semiconductor Lasers Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.21.4 Semiconductor Laser LTD Main Business Overview
 - 13.21.5 Semiconductor Laser LTD Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of External-Cavity Diode Laser Systems

Table 4. Major Players of External-Cavity QCL / ICL Systems

Table 5. Major Players of Other

Table 6. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026) & (Units)

Table 7. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type (2021-2026)

Table 8. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Type (2021-2026)

Table 10. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Low-Power Precision Laser

Table 12. Major Players of Medium-Power Laser

Table 13. Major Players of High-Power Stabilized Laser

Table 14. Major Players of Application-Specific Power Class

Table 15. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Output Power Class (2021-2026) & (Units)

Table 16. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Output Power Class (2021-2026)

Table 17. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Output Power Class (2021-2026) & (\$ million)

Table 18. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Output Power Class (2021-2026)

Table 19. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Output Power Class (2021-2026) & (US\$/Unit)

Table 20. Major Players of UV / Violet / Blue

Table 21. Major Players of Visible

Table 22. Major Players of Near-Infrared

Table 23. Major Players of Telecom Band

Table 24. Major Players of SWIR / Mid-Infrared

Table 25. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Wavelength Range (2021-2026) & (Units)

Table 26. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Wavelength Range (2021-2026)

Table 27. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Wavelength Range (2021-2026) & (\$ million)

Table 28. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Wavelength Range (2021-2026)

Table 29. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Wavelength Range (2021-2026) & (US\$/Unit)

Table 30. Major Players of Diffraction-Grating ECDL

Table 31. Major Players of VBG / VHG-Stabilized Laser

Table 32. Major Players of FBG-Stabilized Laser

Table 33. Major Players of Other External-Cavity Structures

Table 34. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by External-Cavity Technology (2021-2026) & (Units)

Table 35. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by External-Cavity Technology (2021-2026)

Table 36. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by External-Cavity Technology (2021-2026) & (\$ million)

Table 37. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by External-Cavity Technology (2021-2026)

Table 38. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by External-Cavity Technology (2021-2026) & (US\$/Unit)

Table 39. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale by Application (2021-2026) & (Units)

Table 40. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Market Share by Application (2021-2026)

Table 41. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Application (2021-2026) & (\$ million)

Table 42. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Application (2021-2026)

Table 43. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Application (2021-2026) & (US\$/Unit)

Table 44. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Company (2021-2026) & (Units)

Table 45. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Company (2021-2026)

Table 46. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Company (2021-2026) & (\$ millions)
Table 47. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Company (2021-2026)
Table 48. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Price by Company (2021-2026) & (US\$/Unit)
Table 49. Key Manufacturers Fixed-Wavelength External-Cavity Semiconductor Lasers Producing Area Distribution and Sales Area
Table 50. Players Fixed-Wavelength External-Cavity Semiconductor Lasers Products Offered
Table 51. Fixed-Wavelength External-Cavity Semiconductor Lasers Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 52. New Products and Potential Entrants
Table 53. Market M&A Activity & Strategy
Table 54. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Geographic Region (2021-2026) & (Units)
Table 55. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share Geographic Region (2021-2026)
Table 56. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 57. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Geographic Region (2021-2026)
Table 58. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country/Region (2021-2026) & (Units)
Table 59. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country/Region (2021-2026)
Table 60. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Country/Region (2021-2026) & (\$ millions)
Table 61. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Country/Region (2021-2026)
Table 62. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country (2021-2026) & (Units)
Table 63. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country (2021-2026)
Table 64. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Country (2021-2026) & (\$ millions)
Table 65. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026) & (Units)
Table 66. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by

Application (2021-2026) & (Units)

Table 67. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Region (2021-2026) & (Units)

Table 68. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Region (2021-2026)

Table 69. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Region (2021-2026) & (\$ millions)

Table 70. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026) & (Units)

Table 71. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026) & (Units)

Table 72. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country (2021-2026) & (Units)

Table 73. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Country (2021-2026) & (\$ millions)

Table 74. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026) & (Units)

Table 75. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026) & (Units)

Table 76. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Country (2021-2026) & (Units)

Table 77. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Country (2021-2026)

Table 78. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Type (2021-2026) & (Units)

Table 79. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Application (2021-2026) & (Units)

Table 80. Key Market Drivers & Growth Opportunities of Fixed-Wavelength External-Cavity Semiconductor Lasers

Table 81. Key Market Challenges & Risks of Fixed-Wavelength External-Cavity Semiconductor Lasers

Table 82. Key Industry Trends of Fixed-Wavelength External-Cavity Semiconductor Lasers

Table 83. Fixed-Wavelength External-Cavity Semiconductor Lasers Raw Material

Table 84. Key Suppliers of Raw Materials

Table 85. Fixed-Wavelength External-Cavity Semiconductor Lasers Distributors List

Table 86. Fixed-Wavelength External-Cavity Semiconductor Lasers Customer List

Table 87. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Region (2027-2032) & (Units)

Table 88. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 89. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Country (2027-2032) & (Units)

Table 90. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 91. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Region (2027-2032) & (Units)

Table 92. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 93. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Country (2027-2032) & (Units)

Table 94. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Country (2027-2032) & (Units)

Table 96. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 97. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Type (2027-2032) & (Units)

Table 98. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 99. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Forecast by Application (2027-2032) & (Units)

Table 100. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 101. Coherent Corp. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 102. Coherent Corp. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 103. Coherent Corp. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 104. Coherent Corp. Main Business

Table 105. Coherent Corp. Latest Developments

Table 106. MKS Instruments, Inc. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 107. MKS Instruments, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 108. MKS Instruments, Inc. Fixed-Wavelength External-Cavity Semiconductor

Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 109. MKS Instruments, Inc. Main Business

Table 110. MKS Instruments, Inc. Latest Developments

Table 111. Leonardo DRS, Inc. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 112. Leonardo DRS, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 113. Leonardo DRS, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 114. Leonardo DRS, Inc. Main Business

Table 115. Leonardo DRS, Inc. Latest Developments

Table 116. Hamamatsu Photonics K.K. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 117. Hamamatsu Photonics K.K. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 118. Hamamatsu Photonics K.K. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 119. Hamamatsu Photonics K.K. Main Business

Table 120. Hamamatsu Photonics K.K. Latest Developments

Table 121. Ushio Inc. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 122. Ushio Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 123. Ushio Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 124. Ushio Inc. Main Business

Table 125. Ushio Inc. Latest Developments

Table 126. Thorlabs, Inc. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 127. Thorlabs, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 128. Thorlabs, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 129. Thorlabs, Inc. Main Business

Table 130. Thorlabs, Inc. Latest Developments

Table 131. TOPTICA Photonics SE Basic Information, Fixed-Wavelength External-

Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 132. TOPTICA Photonics SE Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 133. TOPTICA Photonics SE Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 134. TOPTICA Photonics SE Main Business

Table 135. TOPTICA Photonics SE Latest Developments

Table 136. Santec Holdings Corporation Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 137. Santec Holdings Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 138. Santec Holdings Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 139. Santec Holdings Corporation Main Business

Table 140. Santec Holdings Corporation Latest Developments

Table 141. EXFO Inc. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 142. EXFO Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 143. EXFO Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 144. EXFO Inc. Main Business

Table 145. EXFO Inc. Latest Developments

Table 146. nLIGHT, Inc. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 147. nLIGHT, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 148. nLIGHT, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 149. nLIGHT, Inc. Main Business

Table 150. nLIGHT, Inc. Latest Developments

Table 151. BWT Beijing Ltd. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 152. BWT Beijing Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 153. BWT Beijing Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 154. BWT Beijing Ltd. Main Business

Table 155. BWT Beijing Ltd. Latest Developments

Table 156. Sacher Lasertechnik GmbH Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 157. Sacher Lasertechnik GmbH Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 158. Sacher Lasertechnik GmbH Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 159. Sacher Lasertechnik GmbH Main Business

Table 160. Sacher Lasertechnik GmbH Latest Developments

Table 161. Luna Innovations Incorporated Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 162. Luna Innovations Incorporated Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 163. Luna Innovations Incorporated Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 164. Luna Innovations Incorporated Main Business

Table 165. Luna Innovations Incorporated Latest Developments

Table 166. Alpes Lasers SA Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 167. Alpes Lasers SA Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 168. Alpes Lasers SA Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 169. Alpes Lasers SA Main Business

Table 170. Alpes Lasers SA Latest Developments

Table 171. Block Engineering, LLC Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 172. Block Engineering, LLC Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 173. Block Engineering, LLC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 174. Block Engineering, LLC Main Business

Table 175. Block Engineering, LLC Latest Developments

Table 176. AOSense, Inc. Basic Information, Fixed-Wavelength External-Cavity

Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 177. AOSense, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 178. AOSense, Inc. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 179. AOSense, Inc. Main Business

Table 180. AOSense, Inc. Latest Developments

Table 181. SemiNex Corporation Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 182. SemiNex Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 183. SemiNex Corporation Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 184. SemiNex Corporation Main Business

Table 185. SemiNex Corporation Latest Developments

Table 186. Chilas B.V. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 187. Chilas B.V. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 188. Chilas B.V. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 189. Chilas B.V. Main Business

Table 190. Chilas B.V. Latest Developments

Table 191. Zhejiang Faraday Laser Technology Co., Ltd. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 192. Zhejiang Faraday Laser Technology Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 193. Zhejiang Faraday Laser Technology Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 194. Zhejiang Faraday Laser Technology Co., Ltd. Main Business

Table 195. Zhejiang Faraday Laser Technology Co., Ltd. Latest Developments

Table 196. Spectra-Line Photonics (Wuhan) Co., Ltd. Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 197. Spectra-Line Photonics (Wuhan) Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 198. Spectra-Line Photonics (Wuhan) Co., Ltd. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 199. Spectra-Line Photonics (Wuhan) Co., Ltd. Main Business

Table 200. Spectra-Line Photonics (Wuhan) Co., Ltd. Latest Developments

Table 201. Semiconductor Laser LTD Basic Information, Fixed-Wavelength External-Cavity Semiconductor Lasers Manufacturing Base, Sales Area and Its Competitors

Table 202. Semiconductor Laser LTD Fixed-Wavelength External-Cavity Semiconductor Lasers Product Portfolios and Specifications

Table 203. Semiconductor Laser LTD Fixed-Wavelength External-Cavity Semiconductor Lasers Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 204. Semiconductor Laser LTD Main Business

Table 205. Semiconductor Laser LTD Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Fixed-Wavelength External-Cavity Semiconductor Lasers

Figure 2. Fixed-Wavelength External-Cavity Semiconductor Lasers Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Growth Rate 2021-2032 (Units)

Figure 7. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country/Region (2025)

Figure 10. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of External-Cavity Diode Laser Systems

Figure 12. Product Picture of External-Cavity QCL / ICL Systems

Figure 13. Product Picture of Other

Figure 14. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type in 2026

Figure 15. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of Low-Power Precision Laser

Figure 17. Product Picture of Medium-Power Laser

Figure 18. Product Picture of High-Power Stabilized Laser

Figure 19. Product Picture of Application-Specific Power Class

Figure 20. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Output Power Class in 2026

Figure 21. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Output Power Class (2021-2026)

Figure 22. Product Picture of UV / Violet / Blue

Figure 23. Product Picture of Visible

Figure 24. Product Picture of Near-Infrared

Figure 25. Product Picture of Telecom Band

Figure 26. Product Picture of SWIR / Mid-Infrared

Figure 27. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Wavelength Range in 2026

Figure 28. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Wavelength Range (2021-2026)

Figure 29. Product Picture of Diffraction-Grating ECDL

Figure 30. Product Picture of VBG / VHG-Stabilized Laser

Figure 31. Product Picture of FBG-Stabilized Laser

Figure 32. Product Picture of Other External-Cavity Structures

Figure 33. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by External-Cavity Technology in 2026

Figure 34. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by External-Cavity Technology (2021-2026)

Figure 35. Fixed-Wavelength External-Cavity Semiconductor Lasers Consumed in Quantum Technology & Atomic Physics

Figure 36. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market: Quantum Technology & Atomic Physics (2021-2026) & (Units)

Figure 37. Fixed-Wavelength External-Cavity Semiconductor Lasers Consumed in Coherent Communication & LiDAR

Figure 38. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market: Coherent Communication & LiDAR (2021-2026) & (Units)

Figure 39. Fixed-Wavelength External-Cavity Semiconductor Lasers Consumed in Photonic Integrated Circuit Testing

Figure 40. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market: Photonic Integrated Circuit Testing (2021-2026) & (Units)

Figure 41. Fixed-Wavelength External-Cavity Semiconductor Lasers Consumed in Mid-IR Gas & Chemical Sensing

Figure 42. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market: Mid-IR Gas & Chemical Sensing (2021-2026) & (Units)

Figure 43. Fixed-Wavelength External-Cavity Semiconductor Lasers Consumed in Pumping & Industrial Use

Figure 44. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market: Pumping & Industrial Use (2021-2026) & (Units)

Figure 45. Fixed-Wavelength External-Cavity Semiconductor Lasers Consumed in Other

Figure 46. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Market: Other (2021-2026) & (Units)

Figure 47. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sale Market Share by Application (2025)

Figure 48. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Application in 2025

Figure 49. Fixed-Wavelength External-Cavity Semiconductor Lasers Sales by Company in 2025 (Units)

Figure 50. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Company in 2025

Figure 51. Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue by Company in 2025 (\$ millions)

Figure 52. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Company in 2025

Figure 53. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Geographic Region (2021-2026)

Figure 54. Global Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Geographic Region in 2025

Figure 55. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales 2021-2026 (Units)

Figure 56. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue 2021-2026 (\$ millions)

Figure 57. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales 2021-2026 (Units)

Figure 58. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue 2021-2026 (\$ millions)

Figure 59. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales 2021-2026 (Units)

Figure 60. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue 2021-2026 (\$ millions)

Figure 61. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales 2021-2026 (Units)

Figure 62. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue 2021-2026 (\$ millions)

Figure 63. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country in 2025

Figure 64. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Country (2021-2026)

Figure 65. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type (2021-2026)

Figure 66. Americas Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Application (2021-2026)

Figure 67. United States Fixed-Wavelength External-Cavity Semiconductor Lasers

Revenue Growth 2021-2026 (\$ millions)

Figure 68. Canada Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 69. Mexico Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 70. Brazil Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 71. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Region in 2025

Figure 72. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Region (2021-2026)

Figure 73. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type (2021-2026)

Figure 74. APAC Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Application (2021-2026)

Figure 75. China Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 76. Japan Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 77. South Korea Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 78. Southeast Asia Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 79. India Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 80. Australia Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 81. China Taiwan Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 82. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country in 2025

Figure 83. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Market Share by Country (2021-2026)

Figure 84. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type (2021-2026)

Figure 85. Europe Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Application (2021-2026)

Figure 86. Germany Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 87. France Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 88. UK Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 89. Italy Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 90. Russia Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 91. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Country (2021-2026)

Figure 92. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Type (2021-2026)

Figure 93. Middle East & Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Sales Market Share by Application (2021-2026)

Figure 94. Egypt Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 95. South Africa Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 96. Israel Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 97. Turkey Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 98. GCC Countries Fixed-Wavelength External-Cavity Semiconductor Lasers Revenue Growth 2021-2026 (\$ millions)

Figure 99. Manufact

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