

Global Tunable Laser Market 2022-2028

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Abstracts

A tunable laser is a laser the emission wavelength of which can be tuned (i.e. adjusted). It can be used for device characterization, e.g. of photonic integrated circuits. In optical fiber communications with wavelength division multiplexing, a tunable laser can serve as a spare in the case that one of the fixed-wavelength lasers for the particular channels fails. The global tunable laser market was estimated at USD 1,227 million in 2021 and is expected to hit USD 1,983 million by 2028, registering a CAGR of 7.1% from 2022 to 2028 as per the latest report by Gen Consulting Company.

The report provides in-depth analysis and insights regarding the current global market scenario, latest trends and drivers into global tunable laser market. It offers an exclusive insight into various details such as market size, key trends, competitive landscape, growth rate and market segments. This study also provides an analysis of the impact of the COVID-19 crisis on the tunable laser industry.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the type, technology, wavelength, end user, and region. The global market for tunable laser can be segmented by type: free-electron laser (FEL), gas tunable laser, solid state lasers, others. According to the research, the solid state lasers segment had the largest share in the global tunable laser market. Tunable laser market is further segmented by technology: cavity diode laser, distributed bragg reflector (DBR), micro electro mechanical system (MEMS), vertical cavity surface emitting lasers (VCSELs). In 2021, the cavity diode laser segment made up the largest share of revenue generated by the tunable laser market. Based on wavelength, the tunable laser market is segmented into: less than 1000nm, 1000-1500nm, above 1500nm. On the basis of end user, the tunable laser market also can be divided into: aerospace, manufacturing, medical and biotechnology, semiconductor, telecommunications, others. Tunable laser market by region is categorized into: North America, Asia Pacific, Europe, Rest of the World (ROW).

By type:

free-electron laser (FEL)

gas tunable laser

solid state lasers

others

By technology:

cavity diode laser

distributed bragg reflector (DBR)

micro electro mechanical system (MEMS)

vertical cavity surface emitting lasers (VCSELs)

By wavelength:

less than 1000nm

1000-1500nm

above 1500nm

By end user:

aerospace

manufacturing

medical and biotechnology

semiconductor

telecommunications

others

By region:

North America

Asia Pacific

Europe

Rest of the World (ROW)

The report also provides analysis of the key companies of the industry and their detailed company profiles including Coherent, Inc., Daylight Solutions, Inc., EMCORE Corporation, EXFO Inc., Freedom Photonics LLC, Furukawa Electric Co., Ltd., HUBNER GmbH & Co. KG, ID Photonics GmbH, Keysight Technologies, Inc., Lumentum Operations LLC, Luna Innovations Incorporated, NeoPhotonics Corporation, SANTEC CORPORATION, TOPTICA Photonics AG, among others.

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Historical & Forecast Period

This research report provides analysis for each segment from 2018 to 2028 considering 2021 to be the base year.

Scope of the Report

To analyze and forecast the market size of the global tunable laser market.

To classify and forecast the global tunable laser market based on type, technology, wavelength, end user, region.

To identify drivers and challenges for the global tunable laser market.

To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global tunable laser market.

To identify and analyze the profile of leading players operating in the global tunable laser market.

Why Choose This Report

Gain a reliable outlook of the global tunable laser market forecasts from 2022 to 2028 across scenarios.

Identify growth segments for investment.

Stay ahead of competitors through company profiles and market data.

The market estimate for ease of analysis across scenarios in Excel format.

Strategy consulting and research support for three months.

Print authentication provided for the single-user license.

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Free-electron laser (FEL)
Gas tunable laser
Solid state lasers
Others

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Cavity diode laser
Distributed bragg reflector (DBR)
Micro electro mechanical system (MEMS)
Vertical cavity surface emitting lasers (VCSELs)

PART 7. MARKET BREAKDOWN BY WAVELENGTH

Less than 1000nm

1000-1500nm
Above 1500nm

PART 8. MARKET BREAKDOWN BY END USER

Aerospace
Manufacturing
Medical and biotechnology
Semiconductor
Telecommunications
Others

PART 9. MARKET BREAKDOWN BY REGION

North America
Asia Pacific
Europe
Rest of the World (ROW)

PART 10. KEY COMPANIES

Coherent, Inc.
Daylight Solutions, Inc.
EMCORE Corporation
EXFO Inc.
Freedom Photonics LLC
Furukawa Electric Co., Ltd.
HUBNER GmbH & Co. KG
ID Photonics GmbH
Keysight Technologies, Inc.
Lumentum Operations LLC
Luna Innovations Incorporated
NeoPhotonics Corporation
SANTEC CORPORATION
TOPTICA Photonics AG

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