

Global Quantum Cascade Laser (QCL) Market: Worldwide Industry to Boost in the Market Research Report Forecast to 2027

The global Quantum Cascade Laser (QCL) Market is expected to reach USD 451.3 Billion by 2027, according to a new report by Emergen Research

SURREY, BRITISH COLUMBIA, CANADA , December 2, 2021 /EINPresswire.com/ -- The global Quantum Cascade Laser (QCL) Market is expected to reach USD 451.3 Billion by 2027, according to a new report by Emergen Research. North America dominated the market for QCL owing to its application in healthcare, military. An increase in the expenditure on the defense sector will mean a high level of research and development for efficient technologies. The report additionally sheds light on the emerging growth opportunities in the business sphere that are anticipated to bolster the growth of the market. The study further assesses the regional market as well as the international market to garner an insight into the scope of the market. The Fabry-Perot technology is expected to grow with the highest CAGR as it is the cost-effective simplest quantum cascade laser used in high-power devices owing to its high-power ability. An increasing application of Quantum Cascade Lasers in chemical and gas sensing is driving the market demand. Quantum cascade laser finds abundant applications in the development of advanced innovative healthcare equipment. Quantum Cascade Laser Market Size – USD 335.2 Million in 2019, Market Growth - CAGR of 3.8%, Market trends – Growing usage in healthcare sectors. Another important factor driving the adoption of the product is its application in chemical detection and gas sensing in the military and defense industry

The high growth is due to its usage in devices as it offers continuous waves without any delay in time. This is particularly helpful in liver biopsy. QCL is also used to develop a device for breath analysis. The report discusses in detail the growth opportunities, challenges, market drivers and restraints, limitations, threats, and demands of the Quantum Cascade Laser market. The market technology is also used in the trace-gas analysis for explosives detection, industrial process control, and environmental monitoring, among others. QCL infrared spectroscopic imaging is used to identify tissue in real-time. This is particularly helpful in liver biopsy. The report also offers estimations and predictions about the market segment and sub-segments exhibiting promising growth in the forecast timeline. The report also provides deeper insights into the technological advancements, industrial landscape, and emerging product and technological developments in the Quantum Cascade Laser market. The continuous-wave mode is anticipated to grow with a CAGR of 4.2% during the forecast period. It offers fruitful insights into the business sphere to help businesses capitalize on the lucrative growth opportunities. The

deployment of QCL in telecommunication will propel the demand for market product devices in free-space optical communication applications.

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Key participants include Wavelength Electronics, Inc., Thorlabs, Inc., Block MEMS, Hamamatsu Photonics K.K., Mirsense, Alpes Lasers SA, Akela Laser Corporation, Nanoplus Nanosystems and Technologies GmbH, Emerson Electric Corporation, and Adtech Optics., among others.

For the purpose of this report, Emergen Research has segmented into the global Quantum Cascade Laser (QCL) Market on the basis of fabrication technology, packaging type, mode of operation, end-user, and region:

Fabrication Technology Outlook (Revenue, USD Billion; 2017-2027)

Distributed Feedback

Fabry-Perot

Tunable External Cavities

End-Use Outlook (Revenue, USD Billion; 2017-2027)

Industrial

Military and Defense

Healthcare

Telecommunications

Others

Mode of Operation Outlook (Revenue, USD Billion; 2017-2027)

Continuous Wave Mode

Pulsed Mode

Packaging Type Outlook (Revenue, USD Billion; 2017-2027)

HHL & VHL Package

C-Mount Package

To3 Package

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Regional Analysis of the Quantum Cascade Laser Market:

North America (U.S., Canada)

Europe (U.K., Italy, Germany, France, Rest of EU)

Asia Pacific (India, Japan, China, South Korea, Australia, Rest of APAC)

Latin America (Chile, Brazil, Argentina, Rest of Latin America)

Middle East & Africa (Saudi Arabia, U.A.E., South Africa, Rest of MEA)

Market Taxonomy:

Chapter 1: Methodology & Scope

- Definition and forecast parameters
- Methodology and forecast parameters
- Data Sources

Chapter 2:

Executive Summary

- Business trends
- Regional trends
- Product trends
- End-use trends

Chapter 3:

Industry Insights

- Industry segmentation
- Industry landscape
- Vendor matrix
- Technological and innovation landscape

Chapter 4:

Regional Landscape

Chapter 5:

Company Profile

- Business Overview
- Financial Data
- Product Landscape
- Strategic Outlook

Key Objectives of the Report:

Analysis and estimation of the Quantum Cascade Laser market size and share for the projected period of 2020-2027

Extensive analysis of the key players of the market by SWOT analysis and Porter's Five Forces analysis to impart a clear understanding of the competitive landscape

Study of current and emerging trends, restraints, drivers, opportunities, challenges, growth prospects, and risks of the global Quantum Cascade Laser market

Analysis of the growth prospects for the stakeholders and investors through the study of the

promising segments

Strategic recommendations to the established players and new entrants to capitalize on the emerging growth opportunities

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