

Global 635nm-1310nm TO Packaged Laser Diode Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global 635nm-1310nm TO Packaged Laser Diode market size was valued at US\$ 1578 million in 2025 and is forecast to a readjusted size of US\$ 2096 million by 2032 with a CAGR of 4.2% during review period.

In 2025, global production of 635nm-1310nm TO packaged laser diodes reached 54.76 million units, with an average selling price of \$28 per unit. 635nm-1310nm TO-packaged laser diodes refer to semiconductor laser diodes that emit wavelengths covering the visible red light (635 nm) to the near-infrared communication/sensing band (1310 nm). Their laser chips are packaged in a TO (metal can) hermetically sealed/semi-hermetically sealed package, and electrical connection and heat dissipation are achieved through a metal base/pin. The top metal cap may have a transparent window or collimating lens. Some models also integrate a monitoring photodiode to support automatic power control (APC). They are widely used in visible red light indication/alignment, machine vision and sensing, spectral measurement, optical communication/optical interconnection and industrial ranging, test instruments and other fields. The upstream of the industry chain includes epitaxial wafers and chips (GaAs/InP/GaN, etc.), chip manufacturing and coating, TO substrates and leads (Kovar/copper-tungsten/gold plating, etc.), window glass/collimating lenses, bonding wires and die-bonding materials, and sorting and testing equipment; the midstream consists of packaging plants, which complete chip mounting, bonding, capping/laser welding, optical axis and focal length adjustment, reliability and lifespan aging, and grading by power/threshold current/wavelength drift, etc.; the downstream enters module factories (which then manufacture laser modules, ranging modules, and spectral/sensor systems) and end-user OEMs. Gross profit margin is approximately

15%–30%.

This report is a detailed and comprehensive analysis for global 635nm-1310nm TO Packaged Laser Diode market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global 635nm-1310nm TO Packaged Laser Diode market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 635nm-1310nm TO Packaged Laser Diode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 635nm-1310nm TO Packaged Laser Diode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 635nm-1310nm TO Packaged Laser Diode market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for 635nm-1310nm TO Packaged Laser Diode
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global 635nm-1310nm TO Packaged Laser Diode market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Thorlabs, Innolume, Coherent, Excelitas, Ushio Inc., Edmund Optics, SemiNex, Hamamatsu Photonics, ROHM

Semiconductor, Union Optronics, etc.

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

Market Segmentation

635nm-1310nm TO Packaged Laser Diode market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?3.8 mm?TO-46?

?5.6 mm?TO-18/TO-56?

?9 mm?TO-5/TO-9?

Market segment by Power Rating

CW Continuous

Wave Pulse

Market segment by Application

Machine Vision Sensing

Spectroscopic Measurement

Optical Communication

Industrial Ranging

Others

Major players covered

Thorlabs

Innolume

Coherent

Excelitas

Ushio Inc.

Edmund Optics

SemiNex

Hamamatsu Photonics

ROHM Semiconductor

Union Optronics

Shenzhen Micosst-optotech

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe 635nm-1310nm TO Packaged Laser Diode product scope,

Global 635nm-1310nm TO Packaged Laser Diode Market 2026 by Manufacturers, Regions, Type and Application, Forec...

market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 635nm-1310nm TO Packaged Laser Diode, with price, sales quantity, revenue, and global market share of 635nm-1310nm TO Packaged Laser Diode from 2021 to 2026.

Chapter 3, the 635nm-1310nm TO Packaged Laser Diode competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 635nm-1310nm TO Packaged Laser Diode breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and 635nm-1310nm TO Packaged Laser Diode market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of 635nm-1310nm TO Packaged Laser Diode.

Chapter 14 and 15, to describe 635nm-1310nm TO Packaged Laser Diode sales channel, distributors, customers, research findings and conclusion.

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