

Global Super Luminescent Diodes (SLD) Light Source Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Super Luminescent Diodes (SLD) Light Source market size is expected to reach \$ 226 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

SLD super-radiant light sources?more accurately termed 'super-luminescent diodes'?are optoelectronic devices and light source modules that generate broadband, low-coherence light output through amplified spontaneous emission within a semiconductor active region. They combine the high brightness characteristic of laser diodes with the broad spectrum typical of LEDs. Key products include SLD chips, TO-packaged devices, TOSA-packaged devices, temperature-controlled butterfly modules, fiber-coupled modules, OEM driver modules, benchtop low-coherence broadband light sources, and multi-band combined light sources. In 2025, global sales volume for SLD super-radiant light sources is estimated at approximately 269,000 units, with an average unit price of around \$627; the industry average capacity utilization rate is approximately 72.8%, and the gross profit margin is about 45.6%. Upstream enterprises primarily supply semiconductor epitaxial wafers, gallium arsenide, indium phosphide, gallium nitride, gallium antimonide, optical chip foundry services, optical coatings, thermoelectric coolers, fiber couplers, lenses, ceramic substrates, packaging housings, driver circuits, and reliability testing equipment. Downstream applications span optical coherence tomography (OCT), fiber-optic gyroscopes, fiber-optic sensing, white-light interferometry, optical component testing, medical imaging, industrial inspection, scientific research instrumentation, and aerospace inertial navigation. Regarding the product cost structure, epitaxial wafers and chip manufacturing account for approximately 24%; chip screening and burn-in testing for 8%; optical coating and facet processing for 7%; packaging housings and thermoelectric coolers for 14%; fiber coupling and collimating optics for 12%; driver circuits and temperature control modules

for 8%; assembly, debugging, and reliability verification for 10%; labor and manufacturing overhead for 6%; R&D, certification, and administrative expenses for 7%; and packaging, warehousing, and logistics for 4%. The product portfolio includes SLDs spanning the 800-900 nm and 1000-1100 nm ranges, as well as 1310 nm and 1550 nm SLDs, low-polarization SLDs, high-power broadband SLDs, and models designed for OCT, fiber-optic gyroscopes, and benchtop broadband light sources (including butterfly-packaged variants). Target customers range from manufacturers of OCT equipment, fiber-optic gyroscopes, inertial navigation systems, fiber-optic sensors, optical communication test equipment, medical imaging devices, and precision measurement instruments to university laboratories, research institutes, and aerospace system integrators. Key business opportunities are driven by policies promoting the domestic production of high-end medical devices, the upgrading of aerospace inertial navigation systems, the development of precision measurement equipment, enhanced optical communication testing capabilities, and the independent supply of advanced optoelectronic components. Technological innovation is fueled by advancements such as high-power broadband output, low spectral ripple, low polarization, long-life packaging, multi-band integration, module miniaturization, and the integration of temperature control with drive electronics. Meanwhile, evolving market demands reflect a need for higher resolution in medical imaging, greater precision in industrial inspection, enhanced stability in inertial navigation systems, and among research clients faster delivery times and customized wavelength specifications.

This report studies the global Super Luminescent Diodes (SLD) Light Source production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Super Luminescent Diodes (SLD) Light Source 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 Super Luminescent Diodes (SLD) Light Source that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Super Luminescent Diodes (SLD) Light Source total production and demand, 2021-2032, (K Units)

Global Super Luminescent Diodes (SLD) Light Source total production value, 2021-2032, (USD Million)

Global Super Luminescent Diodes (SLD) Light Source production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production

site)

Global Super Luminescent Diodes (SLD) Light Source consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Super Luminescent Diodes (SLD) Light Source domestic production, consumption, key domestic manufacturers and share

Global Super Luminescent Diodes (SLD) Light Source production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Super Luminescent Diodes (SLD) Light Source production by Center Wavelength, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Super Luminescent Diodes (SLD) Light Source production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Super Luminescent Diodes (SLD) Light Source 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 EXALOS AG (CH), Superlum Diodes Ltd. (IE), DenseLight Semiconductors Pte. Ltd. (SG), InPhenix Inc. (US), Thorlabs Inc. (US), Anritsu Corporation (JP), Innolume GmbH (DE), Hamamatsu Photonics K.K. (JP), FiberLabs Inc. (JP), LD-PD Pte. Ltd. (SG), 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 Super Luminescent Diodes (SLD) Light Source market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Center Wavelength, 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 Super Luminescent Diodes (SLD) Light Source Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Super Luminescent Diodes (SLD) Light Source Market, Segmentation by Center Wavelength:

650 - 850 nm

850 - 1050 nm

1050 - 1620 nm

Global Super Luminescent Diodes (SLD) Light Source Market, Segmentation by Output Power:

5 - 20 mW

> 20 mW

Global Super Luminescent Diodes (SLD) Light Source Market, Segmentation by 3dB Bandwidth:

20 - 50 nm

> 50 nm

Global Super Luminescent Diodes (SLD) Light Source Market, Segmentation by Application:

Medical Imaging

Optical Sensing

Metrology

Telecommunications

Research & Development

Other

Companies Profiled:

EXALOS AG (CH)

Superlum Diodes Ltd. (IE)

DenseLight Semiconductors Pte. Ltd. (SG)

InPhenix Inc. (US)

Thorlabs Inc. (US)

Anritsu Corporation (JP)

Innolume GmbH (DE)

Hamamatsu Photonics K.K. (JP)

FiberLabs Inc. (JP)

LD-PD Pte. Ltd. (SG)

QPhotonics LLC (US)

Frankfurt Laser Company (DE)

DK Photonics Technology Limited (CN)

Optilab LLC (US)

AeroDIODE (FR)

Amonics Ltd. (HK)

Tangent Optics (CN)

Key Questions Answered:

1. How big is the global Super Luminescent Diodes (SLD) Light Source market?
2. What is the demand of the global Super Luminescent Diodes (SLD) Light Source market?
3. What is the year over year growth of the global Super Luminescent Diodes (SLD) Light Source market?
4. What is the production and production value of the global Super Luminescent Diodes (SLD) Light Source market?
5. Who are the key producers in the global Super Luminescent Diodes (SLD) Light Source market?
6. What are the growth factors driving the market demand?

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