

North Asian Red Laser Diode Production Location



Article Overview

Japan, particularly through Nichia Corporation, is a key North Asian production hub for high-power red laser diodes, with China also being a major regional market for laser diode manufacturing.

Japan – Nichia Corporation

Nichia, a leading Japanese manufacturer, has established in-house production of high-power red laser diode (LD) chips, enabling the company to produce all three primary colors (RGB) internally. This production supports a wide range of applications, including laser projectors, pico projectors, and consumer electronics. Nichia's facilities in Japan utilize advanced laser oscillators and processing equipment to ensure high-quality, high-reliability red LDs. The company began selling packaged products with its in-house red LD chips in spring 2024, highlighting Japan's role as a strategic production location for North Asian red laser diodes.

China – Asia Pacific Market

China dominates the Asia Pacific laser diode market, serving as both a production and consumption hub. The Chinese market is projected to reach \$1,644.5 million by 2030, driven by applications in fiber optics, medical devices, automotive LiDAR systems, and industrial laser processing. While specific company-level production sites are not detailed in the sources, China's large-scale manufacturing infrastructure supports high-volume laser diode assembly and testing, making it a significant North...

Article Content

Jul 03, 2026

Nichia to make red laser diodes in-house

Nichia, a GaN-based LED/LD manufacturer, has started in-house production of a high-power red laser diode (LD)

Oct 23, 2025

Asia Green Laser Diode Market Size and Forecasts 2031

Sharp Corporation began volume production of compact green laser modules for mobile pico projectors in Asia, targeting

Nov 15, 2025

Laser Diode Market 2025

The Asia-Pacific region has established itself as the dominant force in Global Laser Diode Market, primarily driven by an unparalleled

Jan 10, 2026

Nichia starts in-house production and sales of high-power red laser ...

Nichia started development of watt-class high-power red LD chips and succeeded in producing them in-house. Furthermore, Nichia

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Global Red Laser Diodes Market Size, Share, Industry Trends

The adoption of AI-driven process optimization is further enhancing production efficiency, allowing for rapid scaling

Oct 13, 2025

Laser Diode Market Size, Forecast Report, Competitive Landscape 2031

Laser Diode Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031)
The Laser Diode Market

Feb 09, 2026

Asia-Pacific Laser Diode Market: Trends and Forecast (2024-2032)

Asia-Pacific Laser Diode Market Size, Share & Trends Analysis Report By Wavelength, (Infrared Laser Diodes, Red

Jan 09, 2026

Red Diode Laser Market to Hit \$1.3 Billion by 2032 Amid Surge in ...

Red Diode Laser Market Poised for Strong Growth: From \$847M in 2024 to \$1.3B by 2032 The global red diode laser

Jan 07, 2026

Nichia adds in-house production of red laser chips to production of ...

Nichia started development of watt-class high-power red LD chips and is now producing them in-house. It has also

Feb 14, 2026

Laser Diode Market: Global Industry Analysis

The laser diode market has experienced robust growth over the past few years, driven by its extensive applications

Dec 25, 2025

Laser Diode Market Size, Share & Demand Report to 2030

Market Growth Factors Laser diodes have become indispensable tools in automotive, aerospace, and electronics manufacturing

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Laser Diode Market Size to Attain USD 25.84 Billion by 2034

The global laser diode market size was estimated at USD 9.15 billion in 2024 and is predicted to attain around USD

Aug 12, 2025

Worldwide Red Laser Diodes Market 2026

In Asia Pacific, the market was led by consumer electronics manufacturing in China, Japan, and South Korea, with

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List of semiconductor fabrication plants

Semiconductor fabrication plants are factories where integrated circuits (ICs), also known as microchips, are manufactured.

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Nichia adds in-house production of red laser chips to production of ...

In addition to blue and green LD chips, in-house production of red LD chips will enable Nichia to manufacture all three

Jun 26, 2026

Laser Diode Market Research Report 2034

The laser diode market was valued at \$13.21 billion in 2025 and is projected to reach \$27.87 billion by 2034, growing at 8.7% CAGR.

Jan 20, 2026

Visible Laser Diodes Market in Asia-Pacific | Report

The Asia-Pacific visible laser diodes market encompasses semiconductor light sources emitting in the 400–700 nm

Nov 11, 2025

Red Diode Laser Market Size, Insights, Industry Growth & Forecast

Red Diode Laser Market Key Takeaways Regional Contribution in 2023: North America accounted for the largest share of the Red

May 03, 2026

Semiconductor Laser Market Size & Share 2026

Semiconductor Laser Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Semiconductor

Mar 23, 2026

Asia Green Laser Diode Market Size and Forecasts 2031

In Asia Green Laser Diode Market, offering valuable insights, key market trends, competitive landscape, and future outlook to

Jun 18, 2026

Red Laser Diodes Market Research Report 2034

Red Laser Diodes Market valued at \$3.87 billion in 2025, projected to reach \$7.12 billion by 2034 at 6.8% CAGR. Analysis of types,

Nov 27, 2025

Nichia Begins In-House Production Red Laser Diodes

Nichia, a manufacturer of high-brightness blue and white LEDs, has started in-house production of a high-power red

Jan 11, 2026

Asia Pacific Laser Diode Market Size, Competitors & Forecast

The Asia Pacific Laser Diode Market would witness market growth of 13.0% CAGR during the forecast period (2023-2030). The

Dec 31, 2025

Nichia starts in-house production and sales of high

Nichia began working on watt-class high-power red LD chips and was able to manufacture

Jan 10, 2026

Nichia starting in-house production of high-power red laser diodes

The company started its development of "watt-class" high-power red LD chips and succeeded in producing them in

Dec 21, 2025

Laser Diode Market Report 2026

Asia-Pacific is expected to be the fastest-growing region in the laser diode market during the forecast period. The regions covered in

Dec 16, 2025

Global Red Diode Laser Market 2025 by Manufacturers, Regions,

Chapter 4, the Red Diode Laser breakdown data are shown at the regional level, to show the sales quantity, consumption value, and

May 01, 2026

Global GaN Laser Diode Chips Market Size, Share, Trends & Industry ...

GaN Laser Diode Chips Market Outlook By Size and Forecast The GaN laser diode chips market is positioned at a

Apr 08, 2026

Laser Diode Development□Stories of Manufacturing

Around the same time, the company adopted its current name, and after evaluating several next

Apr 13, 2026

Laser Diode Market Report: Size, Growth, Trends & Forecast

Laser Diode Market size was valued at USD 11.35 Billion in 2024 and is projected to reach USD 26.73 Billion by 2032, growing at a

Aug 26, 2025

Nichia starting in-house production of high-power red laser diodes

Nichia, a developer and manufacturer of gallium nitride-based LEDs and the inventor of high-brightness blue and

Oct 10, 2025

Global Semiconductor Laser Diodes for Industrial and Consumer

On the basis of Geography, The Semiconductor Laser Diodes for Industrial and Consumer Market is classified into

May 06, 2026

Laser Diode Market: Top 10 Companies & Key Players

Laser diode market leaders ranked: the top 10 companies powering telecom, healthcare, and defense innovation, with

Dec 30, 2025

Red Diode Laser Market 2025

-> Asia-Pacific holds the largest market share due to strong electronics manufacturing, while North America shows significant growth

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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