

Global 2D Laser Scan Heads Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global 2D Laser Scan Heads market size is expected to reach \$ 696 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

A 2D laser scanning galvanometer is a core optical actuator used to control the high-speed deflection and precise positioning of a laser beam in a two-dimensional plane. It typically consists of a galvanometer motor, reflecting mirrors, and a drive control system. Laser trajectory scanning is achieved by changing the angle of the driven mirror through current. It is widely used in laser marking, laser engraving, laser welding, and precision machining. In 2025, global sales were approximately 1.45 million units, with an average unit price of approximately US\$320 and a capacity utilization rate of approximately 84%. Upstream companies are mainly concentrated in the fields of precision motors, optical lenses, control chips, power electronic devices, and structural component processing. Downstream companies are mainly distributed in industries such as laser equipment manufacturing, 3C electronics processing, automotive parts processing, medical device processing, and new energy equipment. The industry gross profit margin is approximately 35%. In the product cost structure, precision motors and drive systems account for approximately 35%, optical lenses and coatings for approximately 25%, control systems and software for approximately 15%, structural components and assembly for approximately 10%, and other costs for approximately 15%. On the demand side, the downstream demand list includes laser marking equipment, laser engraving equipment, laser welding systems, 3D printing equipment, and precision machining equipment. The downstream customer list includes laser equipment manufacturers, consumer electronics manufacturers, automotive parts companies, medical equipment manufacturers, and new energy equipment integrators. On the business opportunity side, policy drivers include the continued advancement of policies related to intelligent manufacturing and high-end equipment. Technological

innovation is reflected in high-speed, high-precision galvanometer control algorithms, miniaturized designs, and upgrades to digital control systems. Changing consumer demands manifest in the increasing need for high precision, high efficiency, and flexible processing capabilities, driving products towards high-end and intelligent development.

As a key component in laser processing equipment, the development of 2D laser scanning galvanometers is highly dependent on the expansion and technological upgrades of downstream laser applications. Currently, with the accelerated transformation of global manufacturing towards automation and precision, the penetration rate of laser processing technology in the electronics, automotive, and new energy sectors continues to increase, resulting in steady growth in demand for galvanometer products. Simultaneously, the rapid pace of product updates in consumer electronics places higher demands on precision marking and micromachining capabilities, further promoting the widespread application of high-performance galvanometers. However, the industry also faces certain challenges, including high technological barriers for high-end products, continued reliance on imports for core components, and intense competition in the low-to-mid-end market leading to price pressure. In the future, with the acceleration of domestic substitution and the improvement of high-end manufacturing capabilities, companies with core control technologies and optical design capabilities will gradually gain a competitive advantage. The industry as a whole will develop towards higher speeds, higher precision, and greater integration, while emerging fields such as 3D printing, LiDAR, and new displays will also release new growth potential, driving the market to continue its upward expansion.

This report studies the global 2D Laser Scan Heads production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 2D Laser Scan Heads 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 2D Laser Scan Heads that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global 2D Laser Scan Heads total production and demand, 2021-2032, (Units)

Global 2D Laser Scan Heads total production value, 2021-2032, (USD Million)

Global 2D Laser Scan Heads production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global 2D Laser Scan Heads consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: 2D Laser Scan Heads domestic production, consumption, key domestic manufacturers and share

Global 2D Laser Scan Heads production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global 2D Laser Scan Heads production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global 2D Laser Scan Heads production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global 2D Laser Scan Heads 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 Aerotech, El.En, Novanta, ProByLas, IPG Photonics, SCANLAB GmbH, Feeltek Laser Technology, HIGHmotion, Coherent, Carman Haas Laser, 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 2D Laser Scan Heads market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, 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 2D Laser Scan Heads Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 2D Laser Scan Heads Market, Segmentation by Type:

Below 10mm

10-25mm

Above 25mm

Global 2D Laser Scan Heads Market, Segmentation by Accuracy:

?50 μ rad pk-pk

50-100 μ rad pk-pk

?100 μ rad pk-pk

Global 2D Laser Scan Heads Market, Segmentation by Positioning Speed:

25-50m/s

50-75m/s

Global 2D Laser Scan Heads Market, Segmentation by Application:

Electronic Components and Instruments

Packaging Printing

Coatings and Films

Food

Other

Companies Profiled:

Aerotech

El.En

Novanta

ProByLas

IPG Photonics

SCANLAB GmbH

Feeltek Laser Technology

HIGHmotion

Coherent

Carman Haas Laser

Thorlabs

FFT Produktionssysteme

Polaris Motion

Sintec Optronics

Sunny Optical Technology

Key Questions Answered:

1. How big is the global 2D Laser Scan Heads market?
2. What is the demand of the global 2D Laser Scan Heads market?
3. What is the year over year growth of the global 2D Laser Scan Heads market?
4. What is the production and production value of the global 2D Laser Scan Heads market?
5. Who are the key producers in the global 2D Laser Scan Heads market?
6. What are the growth factors driving the market demand?

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