

Global Two-axis Laser Scan Heads Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G0CFABA54603EN.html>

Date: April 2026

Pages: 130

Price: US\$ 4,480.00 (Single User License)

ID: G0CFABA54603EN

Abstracts

The global Two-axis Laser Scan Heads market size is expected to reach \$ 686 million by 2032, rising at a market growth of 6.0% CAGR during the forecast period (2026-2032).

Two-axis laser scan heads are optical scanning execution systems composed of two mutually perpendicular galvanometer motors. By controlling the deflection of the X-axis and Y-axis reflectors respectively, they achieve high-speed and precise positioning and trajectory scanning of the laser beam in a two-dimensional plane. They are core components in laser marking, laser engraving, and precision machining equipment, characterized by fast response speed, high positioning accuracy, and applicability to most industrial processing scenarios. Global sales in 2025 were approximately 1.6 million units, with an average unit price of approximately US\$280 and a capacity utilization rate of approximately 85%. Upstream companies are mainly concentrated in the manufacturing of precision motors, optical lenses, coating materials, driver chips, and electronic components. Downstream companies are mainly distributed in laser equipment manufacturing, 3C electronics processing, automotive parts, medical devices, new energy equipment, and industrial automation. The industry's gross profit margin is approximately 34%. In the product cost structure, galvanometer motors and drive systems account for approximately 40%, optical lenses and coatings approximately 25%, control systems and algorithms approximately 15%, structural components and assembly approximately 10%, and other costs approximately 10%. From a demand perspective, the downstream demand list includes laser marking equipment, laser engraving equipment, laser welding systems, 3D printing equipment, and micro-machining equipment. The downstream customer list includes laser equipment manufacturers, consumer electronics manufacturers, automotive parts suppliers, medical device companies, and new energy system integrators. Regarding

business opportunities, policy drivers include the continued advancement of policies promoting intelligent manufacturing upgrades and the high-end equipment industry. Technological innovation is reflected in high-speed scanning control algorithms, lightweight structural design, and optimization of high-precision optical systems. Changing consumer demands manifest in increasingly higher requirements for processing accuracy, efficiency, and equipment stability. Simultaneously, the growing demand for flexible manufacturing and personalized production is driving equipment development towards higher performance and reliability.

As the most widely used core component of laser scanning, two-axis laser scanning galvanometers will continue to maintain stable growth in the future, with their development closely tied to the laser processing industry. With the increasing automation of global manufacturing and the growing penetration of laser processing technology in electronics, automotive, and new energy sectors, the market demand for high-performance galvanometers is constantly increasing. Simultaneously, continuous technological advancements in the industry are improving galvanometers in terms of scanning speed, accuracy, and stability, further expanding their application boundaries. However, industry competition is also intensifying, with significant homogenization of low- and mid-range products and increased price competition, posing a challenge to corporate profitability. In the future, with the increasing demand for high-end manufacturing and the accelerated process of domestic substitution, companies with core control technologies and optical design capabilities will gradually gain a dominant position. The industry as a whole will develop towards higher precision, higher speed, and greater intelligence, while emerging fields such as semiconductor processing, advanced manufacturing, and 3D printing will release more incremental demand, driving the two-axis galvanometer market to continue its high-end upgrade.

This report studies the global Two-axis Laser Scan Heads production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Two-axis Laser Scan Heads total production and demand, 2021-2032, (Units)

Global Two-axis Laser Scan Heads total production value, 2021-2032, (USD Million)

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

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

U.S. VS China: Two-axis Laser Scan Heads domestic production, consumption, key domestic manufacturers and share

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

Global Two-axis Laser Scan Heads production by Aperture Size, production, value, CAGR, 2021-2032, (USD Million) & (Units)

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

This report profiles key players in the global Two-axis 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 Two-axis 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 Aperture Size, 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 Two-axis Laser Scan Heads Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Two-axis Laser Scan Heads Market, Segmentation by Aperture Size:

Below 10mm

10-25mm

Above 25mm

Global Two-axis Laser Scan Heads Market, Segmentation by Accuracy:

?50 μ rad pk-pk

50-100 μ rad pk-pk

?100 μ rad pk-pk

Global Two-axis Laser Scan Heads Market, Segmentation by Positioning Speed:

25-50m/s

50-75m/s

Other

Global Two-axis Laser Scan Heads Market, Segmentation by Application:

CO2 Marking

3D Scanning

Laser Die-cutting

Other

Companies Profiled:

Aerotech

EI.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 Two-axis Laser Scan Heads market?
2. What is the demand of the global Two-axis Laser Scan Heads market?
3. What is the year over year growth of the global Two-axis Laser Scan Heads market?
4. What is the production and production value of the global Two-axis Laser Scan Heads market?
5. Who are the key producers in the global Two-axis Laser Scan Heads market?
6. What are the growth factors driving the market demand?

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