

Global Metalens Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Metalens market size is expected to reach \$ 4178 million by 2032, rising at a market growth of 73.6% CAGR during the forecast period (2026-2032).

In 2025, global metalens production reached approximately 6.9 million Pcs, with an average global market price of around US\$ 11.7 per Pcs.

A metalens is a type of lens made from nanostructures rather than traditional glass or plastic. These nanostructures are designed to manipulate light at the nanoscale, allowing for the creation of lenses that are much thinner and lighter than traditional lenses. Metalenses have the potential to revolutionize a wide range of optical technologies, including cameras, microscopes, and virtual reality devices.

The global Metalens market is moving from early commercial adoption to fast scale-up. As the technology continues to evolve, metalenses will become a critical enabler for the next generation of compact imaging, sensing and display applications. Major leading manufacturers have begun to accelerate the layout of metalenses, and metalenses are about to usher in in-depth applications and full mass production in various fields.

As an important breakthrough in the field of modern optics, metalens technology has attracted widespread attention worldwide for its unique performance and broad application prospects. The global Metalens market is moving from early commercial adoption to fast scale-up. The market is expected to grow rapidly in the coming years as research and development activities continue to drive innovation in the field.

Asia-Pacific is the core volume market because most downstream consumer electronics, optical modules, camera modules, and sensor integration capacity is

located in China, Japan, South Korea, Southeast Asia, and Taiwan. North America and Europe have stronger roles in technology origin, IP, advanced sensing, industrial, medical, and high-value prototypes, but their volume share is smaller than Asia-Pacific.

The Asia-Pacific market for Metalens was valued at \$ 48.72 million in 2025 and is projected to climb to US\$ 3,044.18 million by 2032, at a CAGR of 78.28% from 2026 to 2032.

The European market for Metalens was valued at \$ 21.67 million in 2025 and is projected to total US\$ 714.50 million by 2032, at a CAGR of 64.48% from 2026 to 2032.

The North American market for Metalens was valued at US\$ 9.79 million in 2025 and is projected to reach US\$ 506.36 million by 2032, at a CAGR of 75.77% from 2026 to 2032.

Global key metalens players cover Metalenz, Inc., Radiant Opto-Electronics (NIL Technology), and MetaLenX, etc. In terms of revenue, the global three largest companies occupied for a share 71% in 2025.

In terms of product type, visible light metalenses, typically fabricated via electron beam lithography or nanoimprinting, achieve high numerical apertures and >80% transmission efficiency across 400-700 nm, with applications in miniaturized imaging systems (e.g., smartphone cameras, endoscopes) and holography, while infrared metalenses (using Si or Ge nanostructures for mid-infrared 3-5 μ m or far-infrared 8-14 μ m bands) prioritize low optical loss and broadband operation, enabling precision sensing and aerospace applications; key research advances include integrating phase correction nanostructures to eliminate chromatic aberration, scaling up fabrication for large-area lenses, and enhancing environmental stability, making both types viable for next-generation optoelectronic devices.

In terms of product application, in consumer electronics, it drives miniaturization and cost efficiency for 3D sensing, AR/VR, and smartphone cameras. For automotive electronics, it enhances LiDAR and ADAS systems by reducing bulk and improving field of view, integral to next-gen vehicle sensing. In industrial settings, near-infrared metalenses enable subwavelength-resolution microscopes for semiconductor inspection and edge-enhanced machine vision, overcoming traditional system complexity. Medical applications include compact dual-mode microscopes for biological imaging and miniaturized endoscopic tools, addressing bulkiness in clinical equipment.

In recent years, with the continuous advancement of materials science, nanotechnology and precision manufacturing technology, the performance of metalenses has been significantly improved, and market applications have become increasingly widespread. One of the key drivers for the growth of the metalens market is the increasing demand for high-performance optics in various industries, such as healthcare, automotive, and consumer electronics. Metalenses offer several advantages over traditional lenses, including reduced size and weight, improved image quality, and enhanced functionality. Another factor driving the growth of the metalens market is the increasing investment in research and development by key players in the industry.

Despite the potential growth opportunities, the metalens market faces several challenges, including high production costs, limited scalability, and the need for specialized manufacturing processes. Additionally, the market is highly competitive, with several players vying for market share and trying to differentiate themselves through innovation and product quality.

Overall, the global metalens market is poised for significant growth in the coming years, driven by advancements in technology, increasing demand for high-performance optics, and investment in research and development. As the market matures, metalenses are expected to become more widely adopted across various industries, opening up new opportunities for manufacturers and suppliers in the optical industry.

This report studies the global Metalens production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Metalens 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 Metalens that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Metalens total production and demand, 2021-2032, (K Pcs)

Global Metalens total production value, 2021-2032, (USD Million)

Global Metalens production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs), (based on production site)

Global Metalens consumption by region & country, CAGR, 2021-2032 & (K Pcs)

U.S. VS China: Metalens domestic production, consumption, key domestic manufacturers and share

Global Metalens production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Pcs)

Global Metalens production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

Global Metalens production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Pcs)

This report profiles key players in the global Metalens 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 Metalenz, Inc., Radiant Opto-Electronics (NIL Technology), MetaLenX, Hangzhou Najing Technology, SHPHOTONICS, Alpha Cen, Myrias Optics, NDNANO, Moxtek, Inc., MetaOptics Ltd., 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 Metalens market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Pcs) and average price (US\$/Pc) 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 Metalens Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metalens Market, Segmentation by Type:

Infrared Metalens

Visible Light Metalens

Global Metalens Market, Segmentation by Product Quality:

Industrial Grade

Consumer Grade

Global Metalens Market, Segmentation by Sales Method:

Direct Selling

Distribution

Global Metalens Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial

Medical

Others

Companies Profiled:

Metalenz, Inc.

Radiant Opto-Electronics (NIL Technology)

MetaLenX

Hangzhou Najing Technology

SHPHOTONICS

Alpha Cen

Myrias Optics

NDNANO

Moxtek, Inc.

MetaOptics Ltd.

Key Questions Answered:

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

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