

# Global Metamaterials Lens Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Metamaterials Lens market size is expected to reach \$ 7145 million by 2032, rising at a market growth of 89.8% CAGR during the forecast period (2026-2032).

In 2025, global metalens production reached approximately 1,565.19 K Pcs, with an average global market price of around US\$ 43 per Pcs.

A metalens (metamaterials lens) is a type of lens that uses nanostructured surfaces?metasurfaces?to manipulate light at a microscopic level, offering a flat, compact alternative to traditional curved lenses. Unlike conventional lenses that rely on curvature to bend light, metalenses use arrays of tiny, precisely engineered structures smaller than the wavelength of light itself to control the direction, phase, and polarization of incoming light. This breakthrough technology enables thinner, lighter, and more versatile optical devices with applications spanning consumer electronics, automotive, industrial, and medical sectors.

The metalens industry chain is fundamentally a semiconductorized optics value chain. Upstream, it depends on high-quality wafers, thin films, lithography / NIL tools, and foundational IP. Midstream, value is created through nanostructure design, wafer-scale fabrication, process control, and module assembly. Downstream, demand is currently strongest in consumer 3D sensing, biometrics, and compact imaging, with expansion potential in automotive, industrial, AR/VR, and biomedical imaging. The industry?s key inflection point is whether companies can convert advanced metalens designs into high-yield, low-cost, wafer-level production and then embed them into complete sensing systems at scale.

1. Upstream: Raw Materials, Core Equipment, and Enabling Technologies

The upstream of the metalens industry mainly includes:

Substrate materials: silicon wafers, fused silica / SiO<sub>2</sub> wafers, and other optical substrates.

High-index optical materials for nanostructures: \*\*amorphous silicon (a-Si), silicon nitride (SiN), TiO<sub>2</sub> and related dielectric materials are commonly used in metalens fabrication routes. Nature's 2025 review describes deposition of a-Si on SiO<sub>2</sub> wafers and SiN on silicon wafers in representative fabrication flows.

Photoresists, imprint resins, hard-mask materials, and etch chemicals.

Master mold materials and replication consumables for nanoimprint-based high-volume manufacturing.

From an industry-chain perspective, the most critical raw-material requirement is not just 'optical material supply,' but high-uniformity, nanofabrication-compatible thin films and substrates that can support large-area, subwavelength pattern transfer with stable optical performance. The literature also highlights material selection as a commercialization bottleneck, especially where high refractive index, environmental robustness, and scalable processing must be balanced.

The equipment layer is highly semiconductor- and microfabrication-oriented, including:

Lithography systems: photolithography, e-beam lithography, immersion lithography

Nanoimprint lithography (NIL) equipment

Thin-film deposition tools: PECVD, sputtering, evaporation

Etching equipment: ICP / dry etch tools

Metrology and inspection systems

Wafer handling, bonding, and optical test equipment

A distinctive upstream feature of this market is that foundational IP and optical design libraries are unusually important. In practice, metalens commercialization depends not only on material and tool vendors, but also on:

Metasurface design algorithms

Phase profile / nanostructure libraries

Simulation software and process design kits

Patent portfolios and licensing rights

For example, Metalenz states it holds an exclusive worldwide license to foundational Harvard metasurface IP and has 150+ patents.

## 2. Midstream: Design, Fabrication, and Optical Module Manufacturing

The midstream begins with metalens design, where companies or research-to-commercialization players translate required optical functions into nanoscale patterns. This is a high-value part of the chain because metalenses compete on compactness, multifunctionality, aberration control, polarization control, and integration capability, not just on simple focusing. The manufacturing stage is where metalenses differ most from traditional optics. Instead of grinding and polishing curved lenses, metalenses are fabricated as subwavelength nanostructures on wafers through semiconductor-style processing.

This is the part of the chain where yield, CD control, uniformity, defect density, overlay accuracy, and pattern fidelity become decisive. EV Group's paper shows that the metalens supply chain for volume production can include designer ? design master ? pilot production ? wafer-level HVM, supported by precision mastering and NIL process transfer.

A notable commercialization pathway is the migration of optics production into semiconductor manufacturing platforms. This means the midstream is increasingly shaped by three commercialization models:

Fabless IP / design company + semiconductor manufacturing partner

Integrated device manufacturer (IDM) model

Process-platform / equipment ecosystem model centered on NIL and wafer optics

## 3. Downstream: Module Integration and Application Markets

Most metalenses are not sold as stand-alone consumer products. They are usually integrated downstream into:

3D sensing modules

time-of-flight modules

camera-assist systems

biometric sensing modules

LiDAR-related optical engines

AR/VR and wearable optical modules

This makes module houses, sensor manufacturers, and OEM integrators the key downstream buyers, rather than end users directly.

This report studies the global Metamaterials Lens demand, key companies, and key regions.

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

### **Highlights and key features of the study**

Global Metamaterials Lens total market, 2021-2032, (USD Million)

Global Metamaterials Lens total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Metamaterials Lens total market, key domestic companies, and share, (USD Million)

Global Metamaterials Lens revenue by player, revenue and market share 2021-2026, (USD Million)

Global Metamaterials Lens total market by Type, CAGR, 2021-2032, (USD Million)

Global Metamaterials Lens total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Metamaterials Lens market based on the following parameters - company overview, revenue, 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, Myrias Optics, 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 Metamaterials Lens market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Metamaterials Lens Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Metamaterials Lens Market, Segmentation by Type:

Visible Light Metalens

Infrared Metalens

Global Metamaterials Lens Market, Segmentation by Product Quality:

Industrial Grade

Consumer Grade

Global Metamaterials Lens Market, Segmentation by Sales Method:

Direct Selling

Distribution

Global Metamaterials Lens Market, Segmentation by Application:

Consumer Electronics

Automotive

Industrial

Medical

Others

Companies Profiled:

Metalenz, Inc.

Radiant Opto-Electronics (NIL Technology)

MetaLenX

Hangzhou Najing Technology

SHPHOTONICS

Myrias Optics

#### Key Questions Answered

1. How big is the global Metamaterials Lens market?
2. What is the demand of the global Metamaterials Lens market?
3. What is the year over year growth of the global Metamaterials Lens market?
4. What is the total value of the global Metamaterials Lens market?
5. Who are the Major Players in the global Metamaterials Lens market?
6. What are the growth factors driving the market demand?

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