

# Global Metamaterials Lens Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Metamaterials Lens market size was valued at US\$ 69.26 million in 2025 and is forecast to a readjusted size of US\$ 7145 million by 2032 with a CAGR of 89.8% during review period.

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 metalems 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 metalems 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 is a detailed and comprehensive analysis for global Metamaterials Lens market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### **Key Features:**

Global Metamaterials Lens market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Metamaterials Lens market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Metamaterials Lens market size and forecasts, by Type and by Application, in

consumption value (\$ Million), 2021-2032

Global Metamaterials Lens market shares of main players, in revenue (\$ Million),  
2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Metamaterials Lens

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key 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.

### Market segmentation

Metamaterials Lens market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Type

Visible Light Metalens

Infrared Metalens

## Market segment by Product Quality

Industrial Grade

Consumer Grade

## Market segment by Sales Method

Direct Selling

Distribution

## Market segment by Application

Consumer Electronics

Automotive

Industrial

Medical

Others

## Market segment by players, this report covers

Metalenz, Inc.

Radiant Opto-Electronics (NIL Technology)

MetaLenX

Hangzhou Najing Technology

SHPHOTONICS

## Myrias Optics

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

### **The content of the study subjects, includes a total of 13 chapters:**

Chapter 1, to describe Metamaterials Lens product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Metamaterials Lens, with revenue, gross margin, and global market share of Metamaterials Lens from 2021 to 2026.

Chapter 3, the Metamaterials Lens competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Metamaterials Lens market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

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