

Global Metasurface Optical Materials and Components Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GC9C9CB6AF0FEN.html>

Date: July 2026

Pages: 110

Price: US\$ 3,660.00 (Single User License)

ID: GC9C9CB6AF0FEN

Abstracts

The global Metasurface Optical Materials and Components market size is predicted to grow from US\$ 142 million in 2025 to US\$ 592 million in 2032; it is expected to grow at a CAGR of 22.6% from 2026 to 2032.

Metasurface optical materials and components are high-performance physical products that manipulate light fields through subwavelength micro and nanostructures. Their core attribute is the ability to control the phase, amplitude, polarization and dispersion of light through planar micro and nano arrays. The research scope mainly covers metalenses, dielectric metasurface optical elements, polarization control elements, beam shapers, programmable metasurface optical chips and wafer-level metasurface optical components. Product forms include planar optical plates, wafer-level modules, thin-film stacks and integrable chips. Key manufacturing processes include nanoimprint lithography, deep ultraviolet lithography, electron beam lithography, thin-film deposition and etching. Major specifications include subwavelength feature size, refractive index control, transmission efficiency, beam modulation capability, operating wavelength and production yield. Their key function is to enable lightweight, highly integrated and scalable optical control, with broad applications in 3D sensing, polarization imaging, AR/VR displays, micro-cameras, LiDAR and optical communication. In 2025, the gross margin of mass-produced metasurface optical materials and components is approximately 35%-45%, while high-end customized and early-stage project-based products have a gross margin of about 50%-60%. Small-size consumer electronics products are typically priced at around US\$5-20 per unit, industrial and small-batch products at around US\$20-100 per unit, and high-end customized wafer-level samples or special-wavelength products can be significantly higher.

The metasurface optical materials and components industry is an emerging sector

formed at the intersection of nanophotonics and semiconductor-level fabrication. The industry spans a complete value chain from upstream materials, thin films, and substrates to midstream micro- and nanostructure processing and downstream integration into sensors and optical systems. Core production remains concentrated among a few leading firms and manufacturing platforms, while the market is still in its early commercialization stage. High technical barriers and long customer qualification cycles have driven firms to focus on R&D accumulation and scalable production capabilities. Policy support and research investment in some regions have promoted process standardization and the optimization of high-performance material systems, enabling gradual expansion of early pilot production and customized applications. End-user demand primarily originates from consumer electronics, industrial sensing, AR/VR displays, automotive LiDAR, and optical communication. The adoption of 3D sensing, polarization imaging, and micro-camera modules provides clear growth drivers. The integration of wafer-level production, programmable light-control chips, and module-level optical systems further broadens market applications and encourages firms to diversify product portfolios. The industry is characterized by technology intensity, early-stage scale, and high concentration, with short-term revenue largely derived from small-volume projects and pilot customer validations. Technological evolution is moving the sector from electron beam exposure and laboratory prototypes toward nanoimprint lithography, DUV photolithography, and wafer-level production. Competitiveness is increasingly dependent on micro-nanostructure design, material system optimization, and process consistency. Future development will prioritize high efficiency, low cost, integration, and customizability, while gradually expanding into AR/VR, co-packaged optics, and high-end industrial applications, achieving commercial scale and optimizing regional supply chains.

LPI (LP Information)' newest research report, the "Metasurface Optical Materials and Components Industry Forecast" looks at past sales and reviews total world Metasurface Optical Materials and Components sales in 2025, providing a comprehensive analysis by region and market sector of projected Metasurface Optical Materials and Components sales for 2026 through 2032. With Metasurface Optical Materials and Components sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metasurface Optical Materials and Components industry.

This Insight Report provides a comprehensive analysis of the global Metasurface Optical Materials and Components landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading

global companies with a focus on Metasurface Optical Materials and Components portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Metasurface Optical Materials and Components market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metasurface Optical Materials and Components and breaks down the forecast by Function, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Metasurface Optical Materials and Components.

This report presents a comprehensive overview, market shares, and growth opportunities of Metasurface Optical Materials and Components market by product type, application, key players and key regions and countries.

Segmentation by Function:

Metasurface Lens (Metalens)

Wavefront Shaping

Polarization Control

Spectral Filtering

Multi-Functional

Others

Segmentation by Operating Wavelength Band:

Ultraviolet (200-380 nm)

Visible (380-780 nm)

Near-Infrared (780-1100 nm)

Short-Wave Infrared (1100?2500 nm)

Mid-Wave Infrared (3?5 ?m)

Long-Wave Infrared (8?12 ?m)

Others

Segmentation by Manufacturing Process:

Electron Beam Lithography (EBL)

Deep Ultraviolet (DUV) Stepper Lithography

Nanoimprint Lithography (NIL)

Thin-film Deposition and Etching

Laser Direct Write (LDW)

Colloidal Lithography

Others

Segmentation by Application:

Consumer Electronics

Automotive and Mobility

AR VR and Spatial Computing

Industrial and Machine Vision

Optical Communication and Data Center

Medical and Scientific Instruments

Defense and Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Metalenz, Inc.

NIL Technology ApS

MetaOptics Ltd

Lumotive, Inc.

Moxtek, Inc.

STMicroelectronics N.V.

SHPhotonics

Metalens Inc.

United Microelectronics Corporation

Solnil

SkyWater Technology

SILIOS Technologies

Nippon Kayaku Co., Ltd.

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