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Global Metalens Design Simulation Software Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Metalens Design Simulation Software market size is predicted to grow from US$ 44.41 million in 2025 to US$ 163 million in 2032; it is expected to grow at a CAGR of 19.4% from 2026 to 2032.

Metalens Design Simulation Software refers to specialized optical and electromagnetic simulation software used to design, model, optimize, and validate metalenses and metasurface-based optical components. It supports nano-structure unit-cell design, phase profile calculation, electromagnetic field simulation, optical performance prediction, tolerance analysis, and system-level integration. Compared with traditional lens design software, it focuses more on subwavelength structures, phase modulation, polarization control, broadband achromatic design, inverse design, and the coupling between nano-scale electromagnetic behavior and macro-scale optical imaging performance.

Demand for Metalens Design Simulation Software is growing as metalens technology moves from academic research toward commercial applications in smartphone cameras, AR/VR optics, LiDAR, biomedical imaging, infrared sensing, optical communication, and compact machine vision systems. Downstream customers need faster design cycles, lower prototyping costs, higher optical efficiency, and better manufacturability before mass production. Business opportunities mainly come from dedicated metalens design platforms, AI-assisted inverse design tools, cloud-based high-performance simulation, foundry-oriented design kits, and integrated workflows connecting electromagnetic simulation, optical system design, and semiconductor fabrication. As metalenses are increasingly used to replace or complement bulky refractive lenses, software vendors with strong multi-scale simulation, automated optimization, and process-aware design capabilities are likely to gain higher commercial

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value.

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

This Insight Report provides a comprehensive analysis of the global Metalens Design Simulation Software 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 Metalens Design Simulation Software portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Metalens Design Simulation Software market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metalens Design Simulation Software and breaks down the forecast by Design Scale, 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 Metalens Design Simulation Software.

This report presents a comprehensive overview, market shares, and growth opportunities of Metalens Design Simulation Software market by product type, application, key players and key regions and countries.

Segmentation by Design Scale:

Nano-Cell Design Software: Below 10 ?m

Micro-Metalens Design Software: 10–500 ?m

Small-Aperture Metalens Design Software: 0.5–5 mm

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Large-Aperture Metalens Design Software: Above 5 mm

Segmentation by Simulation Method:

FDTD-Based Simulation Software

RCWA-Based Simulation Software

FEM-Based Simulation Software

Ray-Tracing Coupled Simulation Software

AI-Assisted Inverse Design Software

Others

Segmentation by Wavelength Range:

Ultraviolet Metalens Design Software

Visible Metalens Design Software

Near-Infrared Metalens Design Software

Mid-Infrared Metalens Design Software

Terahertz Metalens Design Software

Others

Segmentation by Application:

Consumer Electronics

Automotive LiDAR

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Machine Vision

Biomedical Imaging

Optical Communication

Defense and Aerospace

Semiconductor Inspection

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

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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.

Keysight

PlanOpSim

MetoSim

Simple Metalens

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Ansys

Synopsys

COMSOL

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