

Global Metalens Design Simulation Software 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 Metalens Design Simulation Software market size was valued at US\$ 46.71 million in 2025 and is forecast to a readjusted size of US\$ 162 million by 2032 with a CAGR of 18.3% during review period.

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 value.

This report is a detailed and comprehensive analysis for global Metalens Design Simulation Software market. Both quantitative and qualitative analyses are presented by company, by region & country, by Design Scale 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 Metalens Design Simulation Software market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Metalens Design Simulation Software market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Metalens Design Simulation Software market size and forecasts, by Design Scale and by Application, in consumption value (\$ Million), 2021-2032

Global Metalens Design Simulation Software 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 Metalens Design Simulation Software

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 Metalens Design Simulation Software 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 Keysight, PlanOpSim, MetoSim, Simple Metalens, Ansys, Synopsys, COMSOL, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

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

Market segment by Design Scale

Nano-Cell Design Software: Below 10 μ m

Micro-Metalens Design Software: 10 μ -500 μ m

Small-Aperture Metalens Design Software: 0.5 μ -5 mm

Large-Aperture Metalens Design Software: Above 5 mm

Market segment 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

Market segment 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

Market segment by Application

- Consumer Electronics
- Automotive LiDAR
- Machine Vision
- Biomedical Imaging
- Optical Communication
- Defense and Aerospace
- Semiconductor Inspection
- Others

Market segment by players, this report covers

- Keysight
- PlanOpSim

MetoSim

Simple Metalens

Ansys

Synopsys

COMSOL

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 Metalens Design Simulation Software product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Metalens Design Simulation Software, with revenue, gross margin, and global market share of Metalens Design Simulation Software from 2021 to 2026.

Chapter 3, the Metalens Design Simulation Software 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 Design Scale and by Application, with consumption value and growth rate by Design Scale, 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 Metalens Design Simulation Software market forecast, by regions, by Design Scale and by Application, with consumption value, from 2027 to 2032.

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

Chapter 12, the key raw materials and key suppliers, and industry chain of Metalens Design Simulation Software.

Chapter 13, to describe Metalens Design Simulation Software research findings and conclusion.

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