

Global Metalens for Mobile Phone Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Metalens for Mobile Phone market size was valued at US\$ 8.8 million in 2024 and is forecast to a readjusted size of USD 755 million by 2031 with a CAGR of 68.8% during review period.

A metalens is a type of lens made from nanostructures rather than traditional glass or plastic. These nanostructures are designed to manipulate light at the nanoscale, allowing for the creation of lenses that are much thinner and lighter than traditional lenses. Metalenses have the potential to revolutionize a wide range of optical technologies, including cameras, microscopes, and virtual reality devices.

The commercialization of metalenses are still in its early stages of development. Currently, it is mainly customized in design and manufacturing, and there are only a few general mass-produced products. But as the technology evolves, metalenses will become a critical enabler for the next generation of compact imaging, sensing and display applications. Major leading manufacturers have begun to accelerate the layout of metalenses, and metalenses are about to usher in in-depth applications and full mass production in various fields.

As research in nanotechnology and optics progresses, metalenses hold the potential to revolutionize smartphone design and functionality. They represent an exciting frontier in optical engineering, combining high performance with the need for smaller and lighter devices. The future of mobile phone optics may indeed be shaped significantly by this innovative technology.

Metalens technology utilizes nanostructured surfaces to manipulate light, providing

significant benefits in terms of size, weight, and imaging performance over traditional lens systems. This technology can potentially replace bulky optical components in mobile phone cameras, enabling thinner designs and improved functionalities.

As smartphone cameras become a primary tool for photography and videography, consumers expect higher image quality. Metalenses offer better focusing capabilities and faster autofocus, thus satisfying this demand. Manufacturers are consistently looking to make mobile phones slimmer without compromising on camera performance. Metalenses can help achieve this goal due to their compactness compared to conventional lens systems.

The US remains a leader in technological innovation and investment, setting trends in mobile technology. As a manufacturing hub, countries like China and Japan are likely to be the primary market for metalens technology due to high smartphone penetration and rapid adoption of new technologies. Increasingly stringent regulations on manufacturing processes are leading to a strong focus on innovation, presenting opportunities for metalens deployment in mobile devices.

The metalens market for mobile phones is expected to grow as technology matures. Projections suggest growth driven by advancements in manufacturing techniques, increased demand for imaging technologies, and the ongoing evolution of smartphone capabilities. By the end of the decade, it is anticipated that a significant portion of high-end smartphones will incorporate metalens technology, enhancing optical performance and influencing design paradigms in the mobile device industry.

This report is a detailed and comprehensive analysis for global Metalens for Mobile Phone market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Metalens for Mobile Phone market size and forecasts, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Metalens for Mobile Phone market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Metalens for Mobile Phone market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Pcs), and average selling prices (US\$/Pcs), 2020-2031

Global Metalens for Mobile Phone market shares of main players, shipments in revenue (\$ Million), sales quantity (K Pcs), and ASP (US\$/Pcs), 2020-2025

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 for Mobile Phone
- 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 for Mobile Phone market based on the following parameters - company overview, sales quantity, revenue, price, 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, etc.

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

Market Segmentation

Metalens for Mobile Phone market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. 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 Application

Android Phone

IOS Phone

Hongmeng Phone

Other

Major players covered

Metallenz, Inc.

Radiant Opto-Electronics (NIL Technology)

MetaLenX

Hangzhou Najing Technology

SHPHOTONICS

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Metalens for Mobile Phone product scope, market overview,

market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Metalens for Mobile Phone, with price, sales quantity, revenue, and global market share of Metalens for Mobile Phone from 2020 to 2025.

Chapter 3, the Metalens for Mobile Phone competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Metalens for Mobile Phone breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Metalens for Mobile Phone market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Metalens for Mobile Phone.

Chapter 14 and 15, to describe Metalens for Mobile Phone sales channel, distributors, customers, research findings and conclusion.

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