

Global Mobile Phone Camera Sensor Market Growth 2026-2032

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Abstracts

The global Mobile Phone Camera Sensor market size is predicted to grow from US\$ 9637 million in 2025 to US\$ 14645 million in 2032; it is expected to grow at a CAGR of 4.4% from 2026 to 2032.

A mobile phone camera sensor (Mobile Phone Camera Sensor, typically referring to a CMOS Image Sensor, CIS) is the core device that converts optical signals formed by the lens into electrical charges/voltages at the pixel array, and then outputs digital image data through readout circuits and analog-to-digital conversion. It addresses the key challenge of delivering clear, low-noise images and videos with higher dynamic range, faster autofocus, and more accurate color under the severe constraints of smartphones—extremely limited space, restricted power consumption, constrained thermal dissipation, cost sensitivity, and highly complex usage scenarios (such as backlighting, night scenes, motion, and indoor environments)—while also enabling capabilities such as QR scanning, face recognition, augmented reality (AR), and computational photography. In terms of product evolution, early mobile cameras were limited by low resolution, high noise, and slow readout speeds; subsequently, CMOS sensors replaced CCDs as the mainstream solution due to lower power consumption and higher integration. The industry first drove adoption through higher pixel counts and process scaling, then addressed low-light performance bottlenecks caused by shrinking pixel sizes by introducing back-side illumination (BSI) to improve light efficiency, and further developed stacked architectures that separate the pixel layer from the logic layer to increase readout speed, reduce rolling-shutter effects, and integrate more functions. At the same time, mobile phones evolved from single-camera to multi-camera systems, with sensors co-optimized with lenses, optical stabilization, ISPs, and algorithms, ultimately forming an integrated “hardware + computational photography” imaging experience. Upstream raw materials and process foundations include high-purity silicon

wafers, photoresists and developer/cleaning chemicals, specialty gases, sputtering/deposition and etching materials, metal interconnect materials, and packaging substrates with solder balls or bumps; key components and supporting modules include lenses (glass/plastic elements and coating materials), color filter arrays and microlens materials, infrared cut-off filters (IRCF), packaging and testing services, camera module mechanical parts and connectors, as well as imaging-related components such as autofocus actuators (VCM/linear motors), optical image stabilization (OIS) mechanisms, LED flash and drivers, power management ICs, and clocks/crystals. Overall, the supply chain can be broadly categorized into material suppliers, wafer manufacturing/foundry and specialty process providers, OSATs, optical and filter manufacturers, precision mechanical and module assemblers, and semiconductor equipment and metrology suppliers.

In 2025, global mobile phone camera sensor production capacity is estimated at 3.5 billion units, with sales of approximately 3.15 billion units; the average selling price is about USD 3.12 per unit, and corporate gross margins generally range between 30% and 40%.

United States market for Mobile Phone Camera Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Mobile Phone Camera Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Mobile Phone Camera Sensor is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Mobile Phone Camera Sensor players cover Sony, Samsung, OmniVision, GalaxyCore, SmartSens, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Mobile Phone Camera Sensor landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Mobile Phone Camera Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Mobile Phone Camera Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Mobile Phone Camera Sensor and breaks down the forecast by Type, 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 Mobile Phone Camera Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Mobile Phone Camera Sensor market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

1'

1/1.3'

1/1.31'

1/1.4'

1/1.56'

1/2.0'

1/2.55'

Others

Segmentation by Resolution:

?13MP

16–32MP

48–50MP

64–108MP

200MP

Segmentation by Pixel Pitch:

Small Pixel

Mainstream Pixel

Large Pixel

Ultra-large Pixel

Others

Segmentation by Application:

IOS System Mobile Phone

Android Mobile Phone

HarmonyOS Mobile Phone

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 analysing the company's coverage, product portfolio, its market penetration.

Sony

Samsung

OmniVision

GalaxyCore

SmartSens

Himax

Key Questions Addressed in this Report

What is the 10-year outlook for the global Mobile Phone Camera Sensor market?

What factors are driving Mobile Phone Camera Sensor market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Mobile Phone Camera Sensor market opportunities vary by end market size?

How does Mobile Phone Camera Sensor break out by Type, by Application?

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