

Global Automotive-grade RGB-IR Image Sensor Market Growth 2026-2032

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Abstracts

The global Automotive-grade RGB-IR Image Sensor market size is predicted to grow from US\$ 218 million in 2025 to US\$ 538 million in 2032; it is expected to grow at a CAGR of 14.1% from 2026 to 2032.

The automotive-grade RGB-IR image sensor is a high-reliability image sensor designed for automotive applications that can capture RGB (red, green, blue) and IR (infrared) spectral information simultaneously. It combines the perception capabilities of visible and infrared light and is suitable for scenarios such as driver assistance, night vision systems, occupant monitoring, and gesture recognition. Such sensors usually meet automotive standards (such as AEC-Q100), have a wide temperature range, high durability, and anti-interference capabilities to ensure stable performance in complex in-vehicle environments.

RGB-IR Advantages: One sensor captures both spectra, saving cost and space (no additional camera or mechanically moving filters required).

RGB-IR Disadvantages: Lower resolution due to combining RGB and IR channel sampling into a single CFA pattern, and infrared contamination of the color channels in high infrared lighting conditions (sunlight, incandescent lamps), resulting in strange colors.

United States market for Automotive-grade RGB-IR Image 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 Automotive-grade RGB-IR Image 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 Automotive-grade RGB-IR Image 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 Automotive-grade RGB-IR Image Sensor players cover onsemi, ams-OSRAM, STMicroelectronics, Sony, Teledyne e2v, 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 "Automotive-grade RGB-IR Image Sensor Industry Forecast" looks at past sales and reviews total world Automotive-grade RGB-IR Image Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected Automotive-grade RGB-IR Image Sensor sales for 2026 through 2032. With Automotive-grade RGB-IR Image Sensor sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Automotive-grade RGB-IR Image Sensor industry.

This Insight Report provides a comprehensive analysis of the global Automotive-grade RGB-IR Image 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 Automotive-grade RGB-IR Image Sensor portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive-grade RGB-IR Image Sensor market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive-grade RGB-IR Image 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 Automotive-grade RGB-IR Image Sensor.

This report presents a comprehensive overview, market shares, and growth opportunities of Automotive-grade RGB-IR Image Sensor market by product type,

application, key manufacturers and key regions and countries.

Segmentation by Type:

2MP

5MP

Others

Segmentation by Application:

Cockpit Monitoring

Driving Assistance

Other

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.

onsemi

ams-OSRAM

STMicroelectronics

Sony

Teledyne e2v

Canon

OmniVision Technologies

SmartSens

Silicon Optonics

Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive-grade RGB-IR Image Sensor market?

What factors are driving Automotive-grade RGB-IR Image Sensor market growth, globally and by region?

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

How do Automotive-grade RGB-IR Image Sensor market opportunities vary by end market size?

How does Automotive-grade RGB-IR Image Sensor break out by Type, by Application?

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