

Global Automotive-grade RGB-IR Image Sensor Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Automotive-grade RGB-IR Image Sensor market size was valued at US\$ 229 million in 2025 and is forecast to a readjusted size of US\$ 542 million by 2032 with a CAGR of 13.3% during review period.

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.

This report is a detailed and comprehensive analysis for global Automotive-grade RGB-IR Image Sensor 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 Automotive-grade RGB-IR Image Sensor market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade RGB-IR Image Sensor market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade RGB-IR Image Sensor market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Automotive-grade RGB-IR Image Sensor market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 Automotive-grade RGB-IR Image Sensor

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 Automotive-grade RGB-IR Image Sensor 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 onsemi, ams-OSRAM, STMicroelectronics, Sony, Teledyne e2v, Canon, OmniVision Technologies, SmartSens, Silicon Optonics, etc.

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

Market Segmentation

Automotive-grade RGB-IR Image Sensor market is split by Type and by Application. For the period 2021-2032, 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

2MP

5MP

Others

Market segment by Application

Cockpit Monitoring

Driving Assistance

Other

Major players covered

onsemi

ams-OSRAM

STMicroelectronics

Sony

Teledyne e2v

Canon

OmniVision Technologies

SmartSens

Silicon Optronics

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 Automotive-grade RGB-IR Image Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive-grade RGB-IR Image Sensor, with price, sales quantity, revenue, and global market share of Automotive-grade RGB-IR Image Sensor from 2021 to 2026.

Chapter 3, the Automotive-grade RGB-IR Image Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive-grade RGB-IR Image Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Automotive-grade RGB-IR Image Sensor market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Automotive-grade RGB-IR Image Sensor.

Chapter 14 and 15, to describe Automotive-grade RGB-IR Image Sensor sales channel, distributors, customers, research findings and conclusion.

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