

Global RGB-IR Image Sensor Market Growth 2026-2032

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Abstracts

The global RGB-IR Image Sensor market size is predicted to grow from US\$ 437 million in 2025 to US\$ 894 million in 2032; it is expected to grow at a CAGR of 11.0% from 2026 to 2032.

RGB-IR (RGB-IR) is a different filter type where one of the green dots in the standard Bayer Color Filter Array (CFA) is replaced by a dot that allows near infrared (NIR) wavelengths to reach the sensor. This RGB-IR filter allows the sensor to be used as both a standard color and NIR sensor. This is very useful in applications where the camera needs to be used in very different lighting conditions (i.e. day and night): at night the scene can be illuminated with an infrared light source that is only visible to the camera and not to the human eye. Typical applications for RGB-IR cameras are surveillance (night vision), car interior monitoring, biometrics, etc.

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 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 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 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 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 "RGB-IR Image Sensor Industry Forecast" looks at past sales and reviews total world RGB-IR Image Sensor sales in 2025, providing a comprehensive analysis by region and market sector of projected RGB-IR Image Sensor sales for 2026 through 2032. With 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 RGB-IR Image Sensor industry.

This Insight Report provides a comprehensive analysis of the global 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 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 RGB-IR Image Sensor market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of 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:

Automobile

Medical

Security Monitoring

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 Optronics

Key Questions Addressed in this Report

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

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

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

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

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

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