

Global RGB IR Camera 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 RGB IR Camera market size was valued at US\$ 244 million in 2025 and is forecast to a readjusted size of US\$ 315 million by 2032 with a CAGR of 3.3% during review period.

RGB IR Cameras are imaging devices capable of capturing visible red, green, and blue information together with near-infrared image information through one integrated camera system. A typical product consists of an RGB IR CMOS image sensor, dual-band optical filter, lens, image signal processor, illumination module, interface circuit, housing, and RGB/IR separation software. Unlike conventional day-and-night cameras that mechanically switch an infrared-cut filter, RGB IR products can extract color and infrared information electronically and may capture both channels simultaneously. They are used in driver and occupant monitoring, facial authentication, smart-home security, industrial vision, medical imaging, robotics, agricultural monitoring, and low-light surveillance. The industrial chain of RGB IR Cameras includes upstream CMOS wafers, RGB-IR image sensors, optical lenses, dual-band filters, infrared LEDs, image signal processors, processors, memory devices, PCBs, connectors, flexible cables, housings, thermal-management materials, and communication chips. The midstream includes sensor packaging, camera-module design, optical alignment, lens assembly, ISP tuning, RGB and IR signal separation, color calibration, infrared-removal calibration, illumination integration, firmware development, module assembly, environmental testing, electromagnetic compatibility testing, reliability validation, and complete-camera manufacturing. Downstream applications include automotive cabins, smart security, access control, computers, medical endoscopes, service robots, industrial inspection, agriculture, video conferencing, and consumer electronics. Supporting services include customization, algorithm development, calibration, certification, integration, and maintenance.

RGB IR camera prices vary widely by application, from low-cost automotive modules to high-value industrial multispectral cameras. Gross margins generally range from 25% to 45%, with higher margins for customized, high-resolution, and AI-integrated products.

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

Global RGB IR Camera 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 RGB IR Camera 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 RGB IR Camera 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 RGB IR Camera

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 RGB IR Camera 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 Leopard Imaging, Spectral Devices, JAI, Allied Vision, SMK Corporation, MCNEX, LG Innotek, D3 Embedded, Arducam Technology, Sinoseen, etc.

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

Market Segmentation

RGB IR Camera 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

Single-sensor RGB IR Camera

Multi-sensor RGB IR Camera

Market segment by Resolution

Resolution: 2MP

Resolution: 4MP

Others

Market segment by Application

Automotive

Robotics

Others

Major players covered

Leopard Imaging

Spectral Devices

JAI

Allied Vision

SMK Corporation

MCNEX

LG Innotek

D3 Embedded

Arducam Technology

Sinoseen

e-con Systems

Dongguan Hampo Electronic Technology

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 RGB IR Camera product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the RGB IR Camera 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 RGB IR Camera 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 RGB IR Camera.

Chapter 14 and 15, to describe RGB IR Camera sales channel, distributors, customers, research findings and conclusion.

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