

Global RGB IR Camera Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global RGB IR Camera market size is expected to reach \$ 315 million by 2032, rising at a market growth of 3.3% CAGR during the forecast period (2026-2032).

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 studies the global RGB IR Camera production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for RGB IR Camera and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of RGB IR Camera that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global RGB IR Camera total production and demand, 2021-2032, (K Units)

Global RGB IR Camera total production value, 2021-2032, (USD Million)

Global RGB IR Camera production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global RGB IR Camera consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: RGB IR Camera domestic production, consumption, key domestic manufacturers and share

Global RGB IR Camera production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global RGB IR Camera production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global RGB IR Camera production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global RGB IR Camera market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World RGB IR Camera market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global RGB IR Camera Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global RGB IR Camera Market, Segmentation by Type:

Single-sensor RGB IR Camera

Multi-sensor RGB IR Camera

Global RGB IR Camera Market, Segmentation by Resolution:

Resolution: 2MP

Resolution: 4MP

Others

Global RGB IR Camera Market, Segmentation by Application:

Automotive

Robotics

Others

Companies Profiled:

Leopard Imaging

Spectral Devices

JAI

Allied Vision

SMK Corporation

MCNEX

LG Innotek

D3 Embedded

Arducam Technology

Sinoseen

e-con Systems

Dongguan Hampo Electronic Technology

Key Questions Answered:

1. How big is the global RGB IR Camera market?
2. What is the demand of the global RGB IR Camera market?
3. What is the year over year growth of the global RGB IR Camera market?
4. What is the production and production value of the global RGB IR Camera market?
5. Who are the key producers in the global RGB IR Camera market?
6. What are the growth factors driving the market demand?

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