

Global IR (Infrared) Camera Market Size study, by Detector (Cooled, Uncooled), By Type (Near and Short-wavelength IR, Medium-wavelength IR, Long-wavelength IR), By Material (Germanium, Silicon, Sapphire, Other Materials), By End Use (Military and Defense, Automotive, Industrial, Commercial and Public, Residential, Other) and Regional Forecasts 2022-2032

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Abstracts

Global IR (Infrared) Camera Market is valued approximately USD 8.72 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 7.80% over the forecast period 2024-2032. An infrared (IR) camera captures heat radiation emitted by objects rather than visible light, enabling it to create images based on temperature differences. These cameras are increasingly used in applications such as firefighting, security surveillance, medical diagnostics and environmental monitoring. They operate in wavelengths beyond the visible spectrum and are essential tools for detecting heat signatures, identifying anomalies, and enhancing vision in low-light conditions. The increasing focus in security and surveillance is a key trend for the Global IR (Infrared) Camera Market. There is a rising demand for IR cameras in surveillance applications with increasing security concerns globally. These cameras offer superior performance in low-light conditions, long-range imaging, and detection of intruders or anomalies, making them indispensable in security systems.

In addition, the expansion of the IR (Infrared) Camera Market is predominantly fueled by the surge in demand for surveillance and security systems, industrial applications for

predictive maintenance, and advancements in technology such as improved resolution and AI integration. IR cameras are widely used in industrial applications for predictive maintenance, quality control, and monitoring. They help detect equipment failures and ensure operational efficiency by identifying issues such as overheating, electrical faults, and insulation breakdowns. Also, the healthcare sector's use of IR cameras for diagnostics, the automotive industry's integration for driver assistance, and their role in environmental monitoring and agriculture further fuel market expansion. The healthcare sector's increasing use of IR cameras for diagnostics and treatment, especially for thermal imaging in detecting fevers and other medical conditions, has contributed to market growth. While, the automotive industry's growing use of IR cameras for driver assistance systems, such as night vision enhancement and pedestrian detection, is another significant factor. This integration improves safety and aids in the development of autonomous vehicles. Additionally, declining costs, extensive military applications, supportive government regulations, and rapid growth in emerging markets contribute to the widespread adoption of IR cameras across various sectors. However, limited camera accuracy, along with the imposition of stringent import/export regulations, is expected to stifle Global IR (Infrared) Camera Market growth between 2022 and 2032.

The key regions considered for the global IR (Infrared) Camera Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, Asia Pacific dominates the IR (Infrared) Camera Market share. Whereas, Asia Pacific is poised for rapid growth driven by increased investments in automation and Industry 4.0 technologies. Also, the demand for reliable inspection and observation tools, alongside rapid product innovation, is also fueling the regional market expansion. Industries such as manufacturing, oil and gas, and utilities are widely adopting infrared cameras for non-contact temperature measurement, condition monitoring, and predictive maintenance. These cameras facilitate early detection of equipment failures, hotspot identification, and energy efficiency assessments. Also, the region's strong focus on technological innovation, particularly in countries such as Japan, South Korea, and China, is leading to the development of more advanced, cost-effective IR cameras over the forecast period.

Major market player included in this report are:

Teledyne FLIR LLC

OPGAL Optronic Industries Ltd

Raytheon Company

Seek Thermal, Inc.

Fluke Corporation
Testo SE & Co. Kga
Guide Sensmart Tech Co. Ltd
Hangzhou Hikvision Digital Technology Co., Ltd
Leonardo DRS, Inc.
InfraTec GmbH

The detailed segments and sub-segment of the market are explained below:

By Detector

Cooled

Uncooled

By Type

Near and Short-wavelength IR

Medium-wavelength IR

Long-wavelength IR

By Material

Germanium

Silicon

Sapphire

Other Materials

By End Use

Military and Defense

Automotive

Industrial

Commercial and Public

Residential

Other

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France
Spain
Italy
ROE
Asia Pacific
China
India
Japan
Australia
South Korea
RoAPAC
Latin America
Brazil
Mexico
Middle East & Africa
Saudi Arabia
South Africa
RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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