

Global Infrared (IR) Sensor Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G0D590F76A5EN.html>

Date: July 2024

Pages: 114

Price: US\$ 3,480.00 (Single User License)

ID: G0D590F76A5EN

Abstracts

According to our (Global Info Research) latest study, the global Infrared (IR) Sensor market size was valued at USD 938.4 million in 2023 and is forecast to a readjusted size of USD 1632.4 million by 2030 with a CAGR of 8.2% during review period.

Infrared (IR) Sensor is a light-sensitive optoelectronic component, which is used in gas analysers and flame detectors.

Growth in the automotive industry: IR sensors are widely used in automotive applications, such as parking assist systems, night vision systems, and autonomous driving systems. The growth in the automotive industry is leading to an increase in the demand for IR sensors.

Development of IR imaging technology: IR imaging technology has advanced significantly in recent years, resulting in better image quality, higher resolution, and lower cost. This has opened up new applications for IR sensors in areas such as security, surveillance, and environmental monitoring.

Development of innovative IR sensor technologies: The IR sensor market is characterized by continuous innovation in sensor technologies. Development of new materials, improved manufacturing processes, and advanced image processing algorithms are enabling the production of more sensitive, accurate, and cost-effective IR sensors. This innovation is expected to drive market growth in the future.

Government support and funding: Governments worldwide provide funding and support for research and development in sensing technologies. This support is promoting the

development of innovative IR sensor technologies and their application in various sectors such as defense, homeland security, and environmental monitoring.

The Global Info Research report includes an overview of the development of the Infrared (IR) Sensor industry chain, the market status of Military And Defense (Thermal Infrared (TIR) Sensor, Quantum Infrared (QIR) Sensor), Semiconductors Industry (Thermal Infrared (TIR) Sensor, Quantum Infrared (QIR) Sensor), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Infrared (IR) Sensor.

Regionally, the report analyzes the Infrared (IR) Sensor markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Infrared (IR) Sensor market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Infrared (IR) Sensor market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Infrared (IR) Sensor industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K Units), revenue generated, and market share of different by Type (e.g., Thermal Infrared (TIR) Sensor, Quantum Infrared (QIR) Sensor).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Infrared (IR) Sensor market.

Regional Analysis: The report involves examining the Infrared (IR) Sensor market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Infrared (IR) Sensor market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Infrared (IR) Sensor:

Company Analysis: Report covers individual Infrared (IR) Sensor manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Infrared (IR) Sensor. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Military And Defense, Semiconductors Industry).

Technology Analysis: Report covers specific technologies relevant to Infrared (IR) Sensor. It assesses the current state, advancements, and potential future developments in Infrared (IR) Sensor areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Infrared (IR) Sensor market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Infrared (IR) Sensor market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Thermal Infrared (TIR) Sensor

Quantum Infrared (QIR) Sensor

Market segment by Application

Military And Defense

Semiconductors Industry

Manufacturing Industry

Commercial Applications

Telecommunications

Major players covered

Hamamatsu Photonics

Excelitas Technologies

Murata Manufacturing

Raytheon

InfraTec

Teledyne

Honeywell

Texas Instruments

Nippon Avionics

FLIR Systems

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 Infrared (IR) Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Infrared (IR) Sensor, with price, sales, revenue and global market share of Infrared (IR) Sensor from 2019 to 2024.

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

Chapter 4, the Infrared (IR) Sensor breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Infrared (IR) Sensor market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Infrared (IR) Sensor.

Chapter 14 and 15, to describe Infrared (IR) Sensor sales channel, distributors, customers, research findings and conclusion.

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