

Global Passive Infrared Sensors Market Growth 2025-2031

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Abstracts

The global Passive Infrared Sensors market size is predicted to grow from US\$ 618 million in 2025 to US\$ 858 million in 2031; it is expected to grow at a CAGR of 5.6% from 2025 to 2031.

The impact of the latest U.S. tariff measures and the corresponding policy responses from countries worldwide on market competitiveness, regional economic performance, and supply chain configurations will be comprehensively evaluated in this report.

A passive infrared sensor (PIR sensor) is an electronic sensor that measures infrared (IR) light radiating from objects in its field of view.

Infrared sensors detect and measure infrared radiation, finding applications in various industries such as automotive, aerospace, and consumer electronics. Factors driving market growth include increasing demand for security and surveillance systems, advancements in sensor technology, and the rising adoption of automation in various sectors. The market is competitive, with several key players offering a wide range of infrared sensors. However, challenges such as high cost, limited detection range, and complex integration requirements may hinder market growth. Nonetheless, the infrared sensors market holds promising opportunities, driven by the increasing need for non-contact temperature measurement, gesture recognition, and night vision applications.

LP Information, Inc. (LPI) ' newest research report, the "Passive Infrared Sensors Industry Forecast" looks at past sales and reviews total world Passive Infrared Sensors sales in 2024, providing a comprehensive analysis by region and market sector of projected Passive Infrared Sensors sales for 2025 through 2031. With Passive Infrared Sensors sales broken down by region, market sector and sub-sector, this report

provides a detailed analysis in US\$ millions of the world Passive Infrared Sensors industry.

This Insight Report provides a comprehensive analysis of the global Passive Infrared Sensors 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 Passive Infrared Sensors portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Passive Infrared Sensors market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Passive Infrared Sensors 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 Passive Infrared Sensors.

This report presents a comprehensive overview, market shares, and growth opportunities of Passive Infrared Sensors market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thermal

Quantum

Segmentation by Application:

Consumer Electronics

Aerospace and Defense

Mining

Oil and Gas

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.

Murata Manufacturing

Hamamatsu Photonics

Excelitas Technologie

Teledyne

Raytheon

InfraTec GmbH

FLIR Systems

Nippon Avionics

Honeywell International

Texas Instruments

Amphen

Key Questions Addressed in this Report

What is the 10-year outlook for the global Passive Infrared Sensors market?

What factors are driving Passive Infrared Sensors market growth, globally and by region?

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

How do Passive Infrared Sensors market opportunities vary by end market size?

How does Passive Infrared Sensors break out by Type, by Application?

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