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Global Infrared Radiation (IR) Emitter and Receiver Market Growth 2025-2031

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Abstracts

The global Infrared Radiation (IR) Emitter and Receiver market size is predicted to grow from US$ 3013 million in 2025 to US$ 3731 million in 2031; it is expected to grow at a CAGR of 3.6% 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.

Infrared radiation (IR) is electromagnetic radiation (EMR) with longer wavelengths than those of visible light, and is therefore generally invisible to the human eye.

IR data transmission is also employed in short-range communication among computer peripherals and personal digital assistants. These devices usually conform to standards published by IrDA, the Infrared Data Association. Remote controls and IrDA devices use infrared light-emitting diodes (LEDs) to emit infrared radiation that is focused by a plastic lens into a narrow beam. The beam is modulated, i.e. switched on and off, to prevent interference from other sources of infrared (like sunlight or artificial lighting). The receiver uses a silicon photodiode to convert the infrared radiation to an electric current. It responds only to the rapidly pulsing signal created by the transmitter, and filters out slowly changing infrared radiation from ambient light.

LP Information, Inc. (LPI) ' newest research report, the “Infrared Radiation (IR) Emitter and Receiver Industry Forecast” looks at past sales and reviews total world Infrared Radiation (IR) Emitter and Receiver sales in 2024, providing a comprehensive analysis by region and market sector of projected Infrared Radiation (IR) Emitter and Receiver sales for 2025 through 2031. With Infrared Radiation (IR) Emitter and Receiver sales

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broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Infrared Radiation (IR) Emitter and Receiver industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Infrared Radiation (IR) Emitter and Receiver 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 Infrared Radiation (IR) Emitter and Receiver.

This report presents a comprehensive overview, market shares, and growth opportunities of Infrared Radiation (IR) Emitter and Receiver market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Long Wave (LWIR)

Short Wave IR (SWIR)

Far Wave (FWIR)

Mid Wave IR (MWIR)

Segmentation by Application:

Consumer Electronics

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IR Cameras and Sensors

Others

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

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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.

Excelitas Technologies

FLIR Systems

Honeywell International

Murata Manufacturing

Hamamatsu Photonics

Leonardo DRS

OSRAM Opto Semiconductors

Sofradir

Texas Instruments

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Vishay Intertechnology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Infrared Radiation (IR) Emitter and Receiver market?

What factors are driving Infrared Radiation (IR) Emitter and Receiver market growth, globally and by region?

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

How do Infrared Radiation (IR) Emitter and Receiver market opportunities vary by end market size?

How does Infrared Radiation (IR) Emitter and Receiver break out by Type, by Application?

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