

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

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Abstracts

According to our (Global Info Research) latest study, the global Infrared Radiation (IR) Emitter and Receiver market size was valued at USD 2865 million in 2023 and is forecast to a readjusted size of USD 3608.1 million by 2030 with a CAGR of 3.3% during review period.

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.

The Global Info Research report includes an overview of the development of the Infrared Radiation (IR) Emitter and Receiver industry chain, the market status of Consumer Electronics (Long Wave (LWIR), Short Wave IR (SWIR)), IR Cameras and Sensors (Long Wave (LWIR), Short Wave IR (SWIR)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Infrared Radiation (IR) Emitter and Receiver.

Regionally, the report analyzes the Infrared Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Infrared Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver 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., Long Wave (LWIR), Short Wave IR (SWIR)).

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 Radiation (IR) Emitter and Receiver market.

Regional Analysis: The report involves examining the Infrared Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver:

Company Analysis: Report covers individual Infrared Radiation (IR) Emitter and

Receiver 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 Radiation (IR) Emitter and Receiver. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Consumer Electronics, IR Cameras and Sensors).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Infrared Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver 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

Long Wave (LWIR)

Short Wave IR (SWIR)

Far Wave (FWIR)

Mid Wave IR (MWIR)

Market segment by Application

Consumer Electronics

IR Cameras and Sensors

Others

Major players covered

Excelitas Technologies

FLIR Systems

Honeywell International

Murata Manufacturing

Hamamatsu Photonics

Leonardo DRS

OSRAM Opto Semiconductors

Sofradir

Texas Instruments

Vishay Intertechnology

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 Radiation (IR) Emitter and Receiver product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Infrared Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver 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 Radiation (IR) Emitter and Receiver.

Chapter 14 and 15, to describe Infrared Radiation (IR) Emitter and Receiver sales

channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Infrared Radiation (IR) Emitter and Receiver

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Infrared Radiation (IR) Emitter and Receiver Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 Long Wave (LWIR)

1.3.3 Short Wave IR (SWIR)

1.3.4 Far Wave (FWIR)

1.3.5 Mid Wave IR (MWIR)

1.4 Market Analysis by Application

1.4.1 Overview: Global Infrared Radiation (IR) Emitter and Receiver Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Consumer Electronics

1.4.3 IR Cameras and Sensors

1.4.4 Others

1.5 Global Infrared Radiation (IR) Emitter and Receiver Market Size & Forecast

1.5.1 Global Infrared Radiation (IR) Emitter and Receiver Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Infrared Radiation (IR) Emitter and Receiver Sales Quantity (2019-2030)

1.5.3 Global Infrared Radiation (IR) Emitter and Receiver Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Excelitas Technologies

2.1.1 Excelitas Technologies Details

2.1.2 Excelitas Technologies Major Business

2.1.3 Excelitas Technologies Infrared Radiation (IR) Emitter and Receiver Product and Services

2.1.4 Excelitas Technologies Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Excelitas Technologies Recent Developments/Updates

2.2 FLIR Systems

2.2.1 FLIR Systems Details

2.2.2 FLIR Systems Major Business

2.2.3 FLIR Systems Infrared Radiation (IR) Emitter and Receiver Product and Services

2.2.4 FLIR Systems Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 FLIR Systems Recent Developments/Updates

2.3 Honeywell International

2.3.1 Honeywell International Details

2.3.2 Honeywell International Major Business

2.3.3 Honeywell International Infrared Radiation (IR) Emitter and Receiver Product and Services

2.3.4 Honeywell International Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Honeywell International Recent Developments/Updates

2.4 Murata Manufacturing

2.4.1 Murata Manufacturing Details

2.4.2 Murata Manufacturing Major Business

2.4.3 Murata Manufacturing Infrared Radiation (IR) Emitter and Receiver Product and Services

2.4.4 Murata Manufacturing Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Murata Manufacturing Recent Developments/Updates

2.5 Hamamatsu Photonics

2.5.1 Hamamatsu Photonics Details

2.5.2 Hamamatsu Photonics Major Business

2.5.3 Hamamatsu Photonics Infrared Radiation (IR) Emitter and Receiver Product and Services

2.5.4 Hamamatsu Photonics Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Hamamatsu Photonics Recent Developments/Updates

2.6 Leonardo DRS

2.6.1 Leonardo DRS Details

2.6.2 Leonardo DRS Major Business

2.6.3 Leonardo DRS Infrared Radiation (IR) Emitter and Receiver Product and Services

2.6.4 Leonardo DRS Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Leonardo DRS Recent Developments/Updates

2.7 OSRAM Opto Semiconductors

2.7.1 OSRAM Opto Semiconductors Details

2.7.2 OSRAM Opto Semiconductors Major Business

2.7.3 OSRAM Opto Semiconductors Infrared Radiation (IR) Emitter and Receiver

Product and Services

2.7.4 OSRAM Opto Semiconductors Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 OSRAM Opto Semiconductors Recent Developments/Updates

2.8 Sofradir

2.8.1 Sofradir Details

2.8.2 Sofradir Major Business

2.8.3 Sofradir Infrared Radiation (IR) Emitter and Receiver Product and Services

2.8.4 Sofradir Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Sofradir Recent Developments/Updates

2.9 Texas Instruments

2.9.1 Texas Instruments Details

2.9.2 Texas Instruments Major Business

2.9.3 Texas Instruments Infrared Radiation (IR) Emitter and Receiver Product and Services

2.9.4 Texas Instruments Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Texas Instruments Recent Developments/Updates

2.10 Vishay Intertechnology

2.10.1 Vishay Intertechnology Details

2.10.2 Vishay Intertechnology Major Business

2.10.3 Vishay Intertechnology Infrared Radiation (IR) Emitter and Receiver Product and Services

2.10.4 Vishay Intertechnology Infrared Radiation (IR) Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Vishay Intertechnology Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: INFRARED RADIATION (IR) EMITTER AND RECEIVER BY MANUFACTURER

3.1 Global Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Manufacturer (2019-2024)

3.2 Global Infrared Radiation (IR) Emitter and Receiver Revenue by Manufacturer (2019-2024)

3.3 Global Infrared Radiation (IR) Emitter and Receiver Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Infrared Radiation (IR) Emitter and Receiver by

Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Infrared Radiation (IR) Emitter and Receiver Manufacturer Market Share in 2023

3.4.2 Top 6 Infrared Radiation (IR) Emitter and Receiver Manufacturer Market Share in 2023

3.5 Infrared Radiation (IR) Emitter and Receiver Market: Overall Company Footprint Analysis

3.5.1 Infrared Radiation (IR) Emitter and Receiver Market: Region Footprint

3.5.2 Infrared Radiation (IR) Emitter and Receiver Market: Company Product Type Footprint

3.5.3 Infrared Radiation (IR) Emitter and Receiver Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Infrared Radiation (IR) Emitter and Receiver Market Size by Region

4.1.1 Global Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Region (2019-2030)

4.1.2 Global Infrared Radiation (IR) Emitter and Receiver Consumption Value by Region (2019-2030)

4.1.3 Global Infrared Radiation (IR) Emitter and Receiver Average Price by Region (2019-2030)

4.2 North America Infrared Radiation (IR) Emitter and Receiver Consumption Value (2019-2030)

4.3 Europe Infrared Radiation (IR) Emitter and Receiver Consumption Value (2019-2030)

4.4 Asia-Pacific Infrared Radiation (IR) Emitter and Receiver Consumption Value (2019-2030)

4.5 South America Infrared Radiation (IR) Emitter and Receiver Consumption Value (2019-2030)

4.6 Middle East and Africa Infrared Radiation (IR) Emitter and Receiver Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Type (2019-2030)

5.2 Global Infrared Radiation (IR) Emitter and Receiver Consumption Value by Type (2019-2030)

5.3 Global Infrared Radiation (IR) Emitter and Receiver Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

6.1 Global Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Application (2019-2030)

6.2 Global Infrared Radiation (IR) Emitter and Receiver Consumption Value by Application (2019-2030)

6.3 Global Infrared Radiation (IR) Emitter and Receiver Average Price by Application (2019-2030)

7 NORTH AMERICA

7.1 North America Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Type (2019-2030)

7.2 North America Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Application (2019-2030)

7.3 North America Infrared Radiation (IR) Emitter and Receiver Market Size by Country

7.3.1 North America Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Country (2019-2030)

7.3.2 North America Infrared Radiation (IR) Emitter and Receiver Consumption Value by Country (2019-2030)

7.3.3 United States Market Size and Forecast (2019-2030)

7.3.4 Canada Market Size and Forecast (2019-2030)

7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

8.1 Europe Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Type (2019-2030)

8.2 Europe Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Application (2019-2030)

8.3 Europe Infrared Radiation (IR) Emitter and Receiver Market Size by Country

8.3.1 Europe Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Country (2019-2030)

8.3.2 Europe Infrared Radiation (IR) Emitter and Receiver Consumption Value by

Country (2019-2030)

8.3.3 Germany Market Size and Forecast (2019-2030)

8.3.4 France Market Size and Forecast (2019-2030)

8.3.5 United Kingdom Market Size and Forecast (2019-2030)

8.3.6 Russia Market Size and Forecast (2019-2030)

8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

9.1 Asia-Pacific Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Type (2019-2030)

9.2 Asia-Pacific Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Application (2019-2030)

9.3 Asia-Pacific Infrared Radiation (IR) Emitter and Receiver Market Size by Region

9.3.1 Asia-Pacific Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Region (2019-2030)

9.3.2 Asia-Pacific Infrared Radiation (IR) Emitter and Receiver Consumption Value by Region (2019-2030)

9.3.3 China Market Size and Forecast (2019-2030)

9.3.4 Japan Market Size and Forecast (2019-2030)

9.3.5 Korea Market Size and Forecast (2019-2030)

9.3.6 India Market Size and Forecast (2019-2030)

9.3.7 Southeast Asia Market Size and Forecast (2019-2030)

9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

10.1 South America Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Type (2019-2030)

10.2 South America Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Application (2019-2030)

10.3 South America Infrared Radiation (IR) Emitter and Receiver Market Size by Country

10.3.1 South America Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Country (2019-2030)

10.3.2 South America Infrared Radiation (IR) Emitter and Receiver Consumption Value by Country (2019-2030)

10.3.3 Brazil Market Size and Forecast (2019-2030)

10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

11.1 Middle East & Africa Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Type (2019-2030)

11.2 Middle East & Africa Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Application (2019-2030)

11.3 Middle East & Africa Infrared Radiation (IR) Emitter and Receiver Market Size by Country

11.3.1 Middle East & Africa Infrared Radiation (IR) Emitter and Receiver Sales Quantity by Country (2019-2030)

11.3.2 Middle East & Africa Infrared Radiation (IR) Emitter and Receiver Consumption Value by Country (2019-2030)

11.3.3 Turkey Market Size and Forecast (2019-2030)

11.3.4 Egypt Market Size and Forecast (2019-2030)

11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)

11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

12.1 Infrared Radiation (IR) Emitter and Receiver Market Drivers

12.2 Infrared Radiation (IR) Emitter and Receiver Market Restraints

12.3 Infrared Radiation (IR) Emitter and Receiver Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Infrared Radiation (IR) Emitter and Receiver and Key Manufacturers

13.2 Manufacturing Costs Percentage of Infrared Radiation (IR) Emitter and Receiver

13.3 Infrared Radiation (IR) Emitter and Receiver Production Process

13.4 Infrared Radiation (IR) Emitter and Receiver Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Infrared Radiation (IR) Emitter and Receiver Typical Distributors

14.3 Infrared Radiation (IR) Emitter and Receiver Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

List Of Figures

LIST OF FIGURES

I would like to order

Product name: Global Infrared Radiation (IR) Emitter and Receiver Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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