

Global 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 IR Emitter and Receiver market size was valued at USD 1066.3 million in 2023 and is forecast to a readjusted size of USD 1725.8 million by 2030 with a CAGR of 7.1% 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 IR Emitter and Receiver industry chain, the market status of Automotive (Short Wavelength Infrared, Medium Wavelength Infrared), Telecommunication (Short Wavelength Infrared, Medium Wavelength Infrared), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IR Emitter and Receiver.

Regionally, the report analyzes the 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 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 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 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., Short Wavelength Infrared, Medium Wavelength Infrared).

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 IR Emitter and Receiver market.

Regional Analysis: The report involves examining the 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 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 IR Emitter and Receiver:

Company Analysis: Report covers individual 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 IR Emitter and Receiver. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Telecommunication).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the 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

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

Short Wavelength Infrared

Medium Wavelength Infrared

Long Wavelength Infrared

Far Infrared

Market segment by Application

Automotive

Telecommunication

Military and Aerospace

Healthcare

Industrial

Consumer Electronics

Others

Major players covered

Excelitas Technologies

FLIR Systems

Honeywell

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

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

Chapter 3, the 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 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 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 IR Emitter

and Receiver.

Chapter 14 and 15, to describe IR Emitter and Receiver sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of IR Emitter and Receiver

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

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

1.3.2 Short Wavelength Infrared

1.3.3 Medium Wavelength Infrared

1.3.4 Long Wavelength Infrared

1.3.5 Far Infrared

1.4 Market Analysis by Application

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

1.4.2 Automotive

1.4.3 Telecommunication

1.4.4 Military and Aerospace

1.4.5 Healthcare

1.4.6 Industrial

1.4.7 Consumer Electronics

1.4.8 Others

1.5 Global IR Emitter and Receiver Market Size & Forecast

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

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

1.5.3 Global 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 IR Emitter and Receiver Product and Services

2.1.4 Excelitas Technologies 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 IR Emitter and Receiver Product and Services
- 2.2.4 FLIR Systems 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
 - 2.3.1 Honeywell Details
 - 2.3.2 Honeywell Major Business
 - 2.3.3 Honeywell IR Emitter and Receiver Product and Services
 - 2.3.4 Honeywell IR Emitter and Receiver Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.3.5 Honeywell 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 IR Emitter and Receiver Product and Services
 - 2.4.4 Murata Manufacturing 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 IR Emitter and Receiver Product and Services
 - 2.5.4 Hamamatsu Photonics 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 IR Emitter and Receiver Product and Services
 - 2.6.4 Leonardo DRS 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 IR Emitter and Receiver Product and Services
 - 2.7.4 OSRAM Opto Semiconductors 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 IR Emitter and Receiver Product and Services

2.8.4 Sofradir 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 IR Emitter and Receiver Product and Services

2.9.4 Texas Instruments 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 IR Emitter and Receiver Product and Services

2.10.4 Vishay Intertechnology 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: IR EMITTER AND RECEIVER BY MANUFACTURER

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

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

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

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of IR Emitter and Receiver by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 IR Emitter and Receiver Manufacturer Market Share in 2023

3.4.2 Top 6 IR Emitter and Receiver Manufacturer Market Share in 2023

3.5 IR Emitter and Receiver Market: Overall Company Footprint Analysis

3.5.1 IR Emitter and Receiver Market: Region Footprint

3.5.2 IR Emitter and Receiver Market: Company Product Type Footprint

3.5.3 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 IR Emitter and Receiver Market Size by Region

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

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

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

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

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

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

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

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

5 MARKET SEGMENT BY TYPE

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

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

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

6 MARKET SEGMENT BY APPLICATION

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

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

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

7 NORTH AMERICA

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

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

7.3 North America IR Emitter and Receiver Market Size by Country

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

7.3.2 North America 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 IR Emitter and Receiver Sales Quantity by Type (2019-2030)
- 8.2 Europe IR Emitter and Receiver Sales Quantity by Application (2019-2030)
- 8.3 Europe IR Emitter and Receiver Market Size by Country
 - 8.3.1 Europe IR Emitter and Receiver Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe 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 IR Emitter and Receiver Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific IR Emitter and Receiver Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific IR Emitter and Receiver Market Size by Region
 - 9.3.1 Asia-Pacific IR Emitter and Receiver Sales Quantity by Region (2019-2030)
 - 9.3.2 Asia-Pacific 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 IR Emitter and Receiver Sales Quantity by Type (2019-2030)
- 10.2 South America IR Emitter and Receiver Sales Quantity by Application (2019-2030)
- 10.3 South America IR Emitter and Receiver Market Size by Country
 - 10.3.1 South America IR Emitter and Receiver Sales Quantity by Country (2019-2030)
 - 10.3.2 South America 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 IR Emitter and Receiver Sales Quantity by Type (2019-2030)

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

11.3 Middle East & Africa IR Emitter and Receiver Market Size by Country

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

11.3.2 Middle East & Africa 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 IR Emitter and Receiver Market Drivers

12.2 IR Emitter and Receiver Market Restraints

12.3 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 IR Emitter and Receiver and Key Manufacturers

13.2 Manufacturing Costs Percentage of IR Emitter and Receiver

13.3 IR Emitter and Receiver Production Process

13.4 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 IR Emitter and Receiver Typical Distributors

14.3 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 IR Emitter and Receiver Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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