

Global Infrared LED 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 LED market size was valued at USD 679.8 million in 2023 and is forecast to a readjusted size of USD 878.6 million by 2030 with a CAGR of 3.7% during review period.

Infrared rays are electromagnetic radiations in the nonvisible spectrum of white light, which range from 1300 to 1700 nm. Infrared light emitting diode (IR LED) is a solid-state lighting (SSL) device, which emits light in the infrared range. It spreads the light on a vast area rather than concentrating it or in other words IR LED's have a wide field of view. These LED's find their extensive use in security and surveillance cameras, along with automated driving vehicles.

The world leading players in the Infrared (IR) LED market are EVERLIGHT, Epistar, Osram, DOWA, Lite-On Technology, Vishay Intertechnology, Luminus, Ushio, AU Optronics(Lextar), Showa Denko(SDK), Lumileds, Kingbright, HPLighting, ON Semiconducts, Rohm Semiconductor and so on. These top companies currently account for more than 89% of the total market share and are expected to retain their dominating hold over the market during the forecast period.

The Global Info Research report includes an overview of the development of the Infrared LED industry chain, the market status of Biometric (700nm-850nm, 850nm-940nm), Imaging (700nm-850nm, 850nm-940nm), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Infrared LED.

Regionally, the report analyzes the Infrared LED 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 LED market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Infrared LED 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 LED 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., 700nm-850nm, 850nm-940nm).

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 LED market.

Regional Analysis: The report involves examining the Infrared LED 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 LED 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 LED:

Company Analysis: Report covers individual Infrared LED 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 LED This may involve surveys, interviews, and analysis of

consumer reviews and feedback from different by Application (Biometric, Imaging).

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

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

700nm-850nm

850nm-940nm

940nm-1020nm

1020nm-1720nm

Market segment by Application

Biometric

Imaging

Lighting

Other

Major players covered

Epistar

Nichia

Everlight Electronics

High power Lighting

Osram

Lextar

Opto

Vishay

Epitex

Larson Electronics

On Semiconductor

Fluke

Excelitas

Lite on

Kingbright

Philips

Epileds

New Japan Radio

ROHM Semiconductor

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 LED product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Infrared LED 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 LED 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 LED.

Chapter 14 and 15, to describe Infrared LED sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Infrared LED

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Infrared LED Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 700nm-850nm

1.3.3 850nm-940nm

1.3.4 940nm-1020nm

1.3.5 1020nm-1720nm

1.4 Market Analysis by Application

1.4.1 Overview: Global Infrared LED Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Biometric

1.4.3 Imaging

1.4.4 Lighting

1.4.5 Other

1.5 Global Infrared LED Market Size & Forecast

1.5.1 Global Infrared LED Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Infrared LED Sales Quantity (2019-2030)

1.5.3 Global Infrared LED Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Epistar

2.1.1 Epistar Details

2.1.2 Epistar Major Business

2.1.3 Epistar Infrared LED Product and Services

2.1.4 Epistar Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Epistar Recent Developments/Updates

2.2 Nichia

2.2.1 Nichia Details

2.2.2 Nichia Major Business

2.2.3 Nichia Infrared LED Product and Services

2.2.4 Nichia Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and

Market Share (2019-2024)

2.2.5 Nichia Recent Developments/Updates

2.3 Everlight Electronics

2.3.1 Everlight Electronics Details

2.3.2 Everlight Electronics Major Business

2.3.3 Everlight Electronics Infrared LED Product and Services

2.3.4 Everlight Electronics Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Everlight Electronics Recent Developments/Updates

2.4 High power Lighting

2.4.1 High power Lighting Details

2.4.2 High power Lighting Major Business

2.4.3 High power Lighting Infrared LED Product and Services

2.4.4 High power Lighting Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 High power Lighting Recent Developments/Updates

2.5 Osram

2.5.1 Osram Details

2.5.2 Osram Major Business

2.5.3 Osram Infrared LED Product and Services

2.5.4 Osram Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Osram Recent Developments/Updates

2.6 Lextar

2.6.1 Lextar Details

2.6.2 Lextar Major Business

2.6.3 Lextar Infrared LED Product and Services

2.6.4 Lextar Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 Lextar Recent Developments/Updates

2.7 Opto

2.7.1 Opto Details

2.7.2 Opto Major Business

2.7.3 Opto Infrared LED Product and Services

2.7.4 Opto Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Opto Recent Developments/Updates

2.8 Vishay

2.8.1 Vishay Details

- 2.8.2 Vishay Major Business
- 2.8.3 Vishay Infrared LED Product and Services
- 2.8.4 Vishay Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.8.5 Vishay Recent Developments/Updates
- 2.9 Epitex
 - 2.9.1 Epitex Details
 - 2.9.2 Epitex Major Business
 - 2.9.3 Epitex Infrared LED Product and Services
 - 2.9.4 Epitex Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.9.5 Epitex Recent Developments/Updates
- 2.10 Larson Electronics
 - 2.10.1 Larson Electronics Details
 - 2.10.2 Larson Electronics Major Business
 - 2.10.3 Larson Electronics Infrared LED Product and Services
 - 2.10.4 Larson Electronics Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.10.5 Larson Electronics Recent Developments/Updates
- 2.11 On Semiconductor
 - 2.11.1 On Semiconductor Details
 - 2.11.2 On Semiconductor Major Business
 - 2.11.3 On Semiconductor Infrared LED Product and Services
 - 2.11.4 On Semiconductor Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.11.5 On Semiconductor Recent Developments/Updates
- 2.12 Fluke
 - 2.12.1 Fluke Details
 - 2.12.2 Fluke Major Business
 - 2.12.3 Fluke Infrared LED Product and Services
 - 2.12.4 Fluke Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.12.5 Fluke Recent Developments/Updates
- 2.13 Excelitas
 - 2.13.1 Excelitas Details
 - 2.13.2 Excelitas Major Business
 - 2.13.3 Excelitas Infrared LED Product and Services
 - 2.13.4 Excelitas Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

- 2.13.5 Excelitas Recent Developments/Updates
- 2.14 Lite on
 - 2.14.1 Lite on Details
 - 2.14.2 Lite on Major Business
 - 2.14.3 Lite on Infrared LED Product and Services
 - 2.14.4 Lite on Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.14.5 Lite on Recent Developments/Updates
- 2.15 Kingbright
 - 2.15.1 Kingbright Details
 - 2.15.2 Kingbright Major Business
 - 2.15.3 Kingbright Infrared LED Product and Services
 - 2.15.4 Kingbright Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.15.5 Kingbright Recent Developments/Updates
- 2.16 Philips
 - 2.16.1 Philips Details
 - 2.16.2 Philips Major Business
 - 2.16.3 Philips Infrared LED Product and Services
 - 2.16.4 Philips Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.16.5 Philips Recent Developments/Updates
- 2.17 Epileds
 - 2.17.1 Epileds Details
 - 2.17.2 Epileds Major Business
 - 2.17.3 Epileds Infrared LED Product and Services
 - 2.17.4 Epileds Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.17.5 Epileds Recent Developments/Updates
- 2.18 New Japan Radio
 - 2.18.1 New Japan Radio Details
 - 2.18.2 New Japan Radio Major Business
 - 2.18.3 New Japan Radio Infrared LED Product and Services
 - 2.18.4 New Japan Radio Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.18.5 New Japan Radio Recent Developments/Updates
- 2.19 ROHM Semiconductor
 - 2.19.1 ROHM Semiconductor Details
 - 2.19.2 ROHM Semiconductor Major Business

- 2.19.3 ROHM Semiconductor Infrared LED Product and Services
- 2.19.4 ROHM Semiconductor Infrared LED Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.19.5 ROHM Semiconductor Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: INFRARED LED BY MANUFACTURER

- 3.1 Global Infrared LED Sales Quantity by Manufacturer (2019-2024)
- 3.2 Global Infrared LED Revenue by Manufacturer (2019-2024)
- 3.3 Global Infrared LED Average Price by Manufacturer (2019-2024)
- 3.4 Market Share Analysis (2023)
 - 3.4.1 Producer Shipments of Infrared LED by Manufacturer Revenue (\$MM) and Market Share (%): 2023
 - 3.4.2 Top 3 Infrared LED Manufacturer Market Share in 2023
 - 3.4.2 Top 6 Infrared LED Manufacturer Market Share in 2023
- 3.5 Infrared LED Market: Overall Company Footprint Analysis
 - 3.5.1 Infrared LED Market: Region Footprint
 - 3.5.2 Infrared LED Market: Company Product Type Footprint
 - 3.5.3 Infrared LED 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 LED Market Size by Region
 - 4.1.1 Global Infrared LED Sales Quantity by Region (2019-2030)
 - 4.1.2 Global Infrared LED Consumption Value by Region (2019-2030)
 - 4.1.3 Global Infrared LED Average Price by Region (2019-2030)
- 4.2 North America Infrared LED Consumption Value (2019-2030)
- 4.3 Europe Infrared LED Consumption Value (2019-2030)
- 4.4 Asia-Pacific Infrared LED Consumption Value (2019-2030)
- 4.5 South America Infrared LED Consumption Value (2019-2030)
- 4.6 Middle East and Africa Infrared LED Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

- 5.1 Global Infrared LED Sales Quantity by Type (2019-2030)
- 5.2 Global Infrared LED Consumption Value by Type (2019-2030)
- 5.3 Global Infrared LED Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Infrared LED Sales Quantity by Application (2019-2030)
- 6.2 Global Infrared LED Consumption Value by Application (2019-2030)
- 6.3 Global Infrared LED Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Infrared LED Sales Quantity by Type (2019-2030)
- 7.2 North America Infrared LED Sales Quantity by Application (2019-2030)
- 7.3 North America Infrared LED Market Size by Country
 - 7.3.1 North America Infrared LED Sales Quantity by Country (2019-2030)
 - 7.3.2 North America Infrared LED 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 LED Sales Quantity by Type (2019-2030)
- 8.2 Europe Infrared LED Sales Quantity by Application (2019-2030)
- 8.3 Europe Infrared LED Market Size by Country
 - 8.3.1 Europe Infrared LED Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe Infrared LED 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 LED Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Infrared LED Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Infrared LED Market Size by Region
 - 9.3.1 Asia-Pacific Infrared LED Sales Quantity by Region (2019-2030)
 - 9.3.2 Asia-Pacific Infrared LED 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 LED Sales Quantity by Type (2019-2030)
- 10.2 South America Infrared LED Sales Quantity by Application (2019-2030)
- 10.3 South America Infrared LED Market Size by Country
 - 10.3.1 South America Infrared LED Sales Quantity by Country (2019-2030)
 - 10.3.2 South America Infrared LED 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 LED Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Infrared LED Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Infrared LED Market Size by Country
 - 11.3.1 Middle East & Africa Infrared LED Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa Infrared LED 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 LED Market Drivers
- 12.2 Infrared LED Market Restraints
- 12.3 Infrared LED 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 LED and Key Manufacturers

13.2 Manufacturing Costs Percentage of Infrared LED

13.3 Infrared LED Production Process

13.4 Infrared LED 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 LED Typical Distributors

14.3 Infrared LED 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

Table 1. Global Infrared LED Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Infrared LED Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Epistar Basic Information, Manufacturing Base and Competitors

Table 4. Epistar Major Business

Table 5. Epistar Infrared LED Product and Services

Table 6. Epistar Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Epistar Recent Developments/Updates

Table 8. Nichia Basic Information, Manufacturing Base and Competitors

Table 9. Nichia Major Business

Table 10. Nichia Infrared LED Product and Services

Table 11. Nichia Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Nichia Recent Developments/Updates

Table 13. Everlight Electronics Basic Information, Manufacturing Base and Competitors

Table 14. Everlight Electronics Major Business

Table 15. Everlight Electronics Infrared LED Product and Services

Table 16. Everlight Electronics Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Everlight Electronics Recent Developments/Updates

Table 18. High power Lighting Basic Information, Manufacturing Base and Competitors

Table 19. High power Lighting Major Business

Table 20. High power Lighting Infrared LED Product and Services

Table 21. High power Lighting Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. High power Lighting Recent Developments/Updates

Table 23. Osram Basic Information, Manufacturing Base and Competitors

Table 24. Osram Major Business

Table 25. Osram Infrared LED Product and Services

Table 26. Osram Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Osram Recent Developments/Updates

Table 28. Lextar Basic Information, Manufacturing Base and Competitors

- Table 29. Lextar Major Business
- Table 30. Lextar Infrared LED Product and Services
- Table 31. Lextar Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. Lextar Recent Developments/Updates
- Table 33. Opto Basic Information, Manufacturing Base and Competitors
- Table 34. Opto Major Business
- Table 35. Opto Infrared LED Product and Services
- Table 36. Opto Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Opto Recent Developments/Updates
- Table 38. Vishay Basic Information, Manufacturing Base and Competitors
- Table 39. Vishay Major Business
- Table 40. Vishay Infrared LED Product and Services
- Table 41. Vishay Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. Vishay Recent Developments/Updates
- Table 43. Epitex Basic Information, Manufacturing Base and Competitors
- Table 44. Epitex Major Business
- Table 45. Epitex Infrared LED Product and Services
- Table 46. Epitex Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. Epitex Recent Developments/Updates
- Table 48. Larson Electronics Basic Information, Manufacturing Base and Competitors
- Table 49. Larson Electronics Major Business
- Table 50. Larson Electronics Infrared LED Product and Services
- Table 51. Larson Electronics Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. Larson Electronics Recent Developments/Updates
- Table 53. On Semiconductor Basic Information, Manufacturing Base and Competitors
- Table 54. On Semiconductor Major Business
- Table 55. On Semiconductor Infrared LED Product and Services
- Table 56. On Semiconductor Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. On Semiconductor Recent Developments/Updates
- Table 58. Fluke Basic Information, Manufacturing Base and Competitors
- Table 59. Fluke Major Business
- Table 60. Fluke Infrared LED Product and Services
- Table 61. Fluke Infrared LED Sales Quantity (K Units), Average Price (USD/Unit),

Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Fluke Recent Developments/Updates

Table 63. Excelitas Basic Information, Manufacturing Base and Competitors

Table 64. Excelitas Major Business

Table 65. Excelitas Infrared LED Product and Services

Table 66. Excelitas Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Excelitas Recent Developments/Updates

Table 68. Lite on Basic Information, Manufacturing Base and Competitors

Table 69. Lite on Major Business

Table 70. Lite on Infrared LED Product and Services

Table 71. Lite on Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Lite on Recent Developments/Updates

Table 73. Kingbright Basic Information, Manufacturing Base and Competitors

Table 74. Kingbright Major Business

Table 75. Kingbright Infrared LED Product and Services

Table 76. Kingbright Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Kingbright Recent Developments/Updates

Table 78. Philips Basic Information, Manufacturing Base and Competitors

Table 79. Philips Major Business

Table 80. Philips Infrared LED Product and Services

Table 81. Philips Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. Philips Recent Developments/Updates

Table 83. Epileds Basic Information, Manufacturing Base and Competitors

Table 84. Epileds Major Business

Table 85. Epileds Infrared LED Product and Services

Table 86. Epileds Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. Epileds Recent Developments/Updates

Table 88. New Japan Radio Basic Information, Manufacturing Base and Competitors

Table 89. New Japan Radio Major Business

Table 90. New Japan Radio Infrared LED Product and Services

Table 91. New Japan Radio Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 92. New Japan Radio Recent Developments/Updates

Table 93. ROHM Semiconductor Basic Information, Manufacturing Base and

Competitors

Table 94. ROHM Semiconductor Major Business

Table 95. ROHM Semiconductor Infrared LED Product and Services

Table 96. ROHM Semiconductor Infrared LED Sales Quantity (K Units), Average Price (USD/Unit), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 97. ROHM Semiconductor Recent Developments/Updates

Table 98. Global Infrared LED Sales Quantity by Manufacturer (2019-2024) & (K Units)

Table 99. Global Infrared LED Revenue by Manufacturer (2019-2024) & (USD Million)

Table 100. Global Infrared LED Average Price by Manufacturer (2019-2024) & (USD/Unit)

Table 101. Market Position of Manufacturers in Infrared LED, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 102. Head Office and Infrared LED Production Site of Key Manufacturer

Table 103. Infrared LED Market: Company Product Type Footprint

Table 104. Infrared LED Market: Company Product Application Footprint

Table 105. Infrared LED New Market Entrants and Barriers to Market Entry

Table 106. Infrared LED Mergers, Acquisition, Agreements, and Collaborations

Table 107. Global Infrared LED Sales Quantity by Region (2019-2024) & (K Units)

Table 108. Global Infrared LED Sales Quantity by Region (2025-2030) & (K Units)

Table 109. Global Infrared LED Consumption Value by Region (2019-2024) & (USD Million)

Table 110. Global Infrared LED Consumption Value by Region (2025-2030) & (USD Million)

Table 111. Global Infrared LED Average Price by Region (2019-2024) & (USD/Unit)

Table 112. Global Infrared LED Average Price by Region (2025-2030) & (USD/Unit)

Table 113. Global Infrared LED Sales Quantity by Type (2019-2024) & (K Units)

Table 114. Global Infrared LED Sales Quantity by Type (2025-2030) & (K Units)

Table 115. Global Infrared LED Consumption Value by Type (2019-2024) & (USD Million)

Table 116. Global Infrared LED Consumption Value by Type (2025-2030) & (USD Million)

Table 117. Global Infrared LED Average Price by Type (2019-2024) & (USD/Unit)

Table 118. Global Infrared LED Average Price by Type (2025-2030) & (USD/Unit)

Table 119. Global Infrared LED Sales Quantity by Application (2019-2024) & (K Units)

Table 120. Global Infrared LED Sales Quantity by Application (2025-2030) & (K Units)

Table 121. Global Infrared LED Consumption Value by Application (2019-2024) & (USD Million)

Table 122. Global Infrared LED Consumption Value by Application (2025-2030) & (USD Million)

- Table 123. Global Infrared LED Average Price by Application (2019-2024) & (USD/Unit)
- Table 124. Global Infrared LED Average Price by Application (2025-2030) & (USD/Unit)
- Table 125. North America Infrared LED Sales Quantity by Type (2019-2024) & (K Units)
- Table 126. North America Infrared LED Sales Quantity by Type (2025-2030) & (K Units)
- Table 127. North America Infrared LED Sales Quantity by Application (2019-2024) & (K Units)
- Table 128. North America Infrared LED Sales Quantity by Application (2025-2030) & (K Units)
- Table 129. North America Infrared LED Sales Quantity by Country (2019-2024) & (K Units)
- Table 130. North America Infrared LED Sales Quantity by Country (2025-2030) & (K Units)
- Table 131. North America Infrared LED Consumption Value by Country (2019-2024) & (USD Million)
- Table 132. North America Infrared LED Consumption Value by Country (2025-2030) & (USD Million)
- Table 133. Europe Infrared LED Sales Quantity by Type (2019-2024) & (K Units)
- Table 134. Europe Infrared LED Sales Quantity by Type (2025-2030) & (K Units)
- Table 135. Europe Infrared LED Sales Quantity by Application (2019-2024) & (K Units)
- Table 136. Europe Infrared LED Sales Quantity by Application (2025-2030) & (K Units)
- Table 137. Europe Infrared LED Sales Quantity by Country (2019-2024) & (K Units)
- Table 138. Europe Infrared LED Sales Quantity by Country (2025-2030) & (K Units)
- Table 139. Europe Infrared LED Consumption Value by Country (2019-2024) & (USD Million)
- Table 140. Europe Infrared LED Consumption Value by Country (2025-2030) & (USD Million)
- Table 141. Asia-Pacific Infrared LED Sales Quantity by Type (2019-2024) & (K Units)
- Table 142. Asia-Pacific Infrared LED Sales Quantity by Type (2025-2030) & (K Units)
- Table 143. Asia-Pacific Infrared LED Sales Quantity by Application (2019-2024) & (K Units)
- Table 144. Asia-Pacific Infrared LED Sales Quantity by Application (2025-2030) & (K Units)
- Table 145. Asia-Pacific Infrared LED Sales Quantity by Region (2019-2024) & (K Units)
- Table 146. Asia-Pacific Infrared LED Sales Quantity by Region (2025-2030) & (K Units)
- Table 147. Asia-Pacific Infrared LED Consumption Value by Region (2019-2024) & (USD Million)
- Table 148. Asia-Pacific Infrared LED Consumption Value by Region (2025-2030) & (USD Million)
- Table 149. South America Infrared LED Sales Quantity by Type (2019-2024) & (K Units)

Table 150. South America Infrared LED Sales Quantity by Type (2025-2030) & (K Units)

Table 151. South America Infrared LED Sales Quantity by Application (2019-2024) & (K Units)

Table 152. South America Infrared LED Sales Quantity by Application (2025-2030) & (K Units)

Table 153. South America Infrared LED Sales Quantity by Country (2019-2024) & (K Units)

Table 154. South America Infrared LED Sales Quantity by Country (2025-2030) & (K Units)

Table 155. South America Infrared LED Consumption Value by Country (2019-2024) & (USD Million)

Table 156. South America Infrared LED Consumption Value by Country (2025-2030) & (USD Million)

Table 157. Middle East & Africa Infrared LED Sales Quantity by Type (2019-2024) & (K Units)

Table 158. Middle East & Africa Infrared LED Sales Quantity by Type (2025-2030) & (K Units)

Table 159. Middle East & Africa Infrared LED Sales Quantity by Application (2019-2024) & (K Units)

Table 160. Middle East & Africa Infrared LED Sales Quantity by Application (2025-2030) & (K Units)

Table 161. Middle East & Africa Infrared LED Sales Quantity by Region (2019-2024) & (K Units)

Table 162. Middle East & Africa Infrared LED Sales Quantity by Region (2025-2030) & (K Units)

Table 163. Middle East & Africa Infrared LED Consumption Value by Region (2019-2024) & (USD Million)

Table 164. Middle East & Africa Infrared LED Consumption Value by Region (2025-2030) & (USD Million)

Table 165. Infrared LED Raw Material

Table 166. Key Manufacturers of Infrared LED Raw Materials

Table 167. Infrared LED Typical Distributors

Table 168. Infrared LED Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Infrared LED Picture
- Figure 2. Global Infrared LED Consumption Value by Type, (USD Million), 2019 & 2023 & 2030
- Figure 3. Global Infrared LED Consumption Value Market Share by Type in 2023
- Figure 4. 700nm-850nm Examples
- Figure 5. 850nm-940nm Examples
- Figure 6. 940nm-1020nm Examples
- Figure 7. 1020nm-1720nm Examples
- Figure 8. Global Infrared LED Consumption Value by Application, (USD Million), 2019 & 2023 & 2030
- Figure 9. Global Infrared LED Consumption Value Market Share by Application in 2023
- Figure 10. Biometric Examples
- Figure 11. Imaging Examples
- Figure 12. Lighting Examples
- Figure 13. Other Examples
- Figure 14. Global Infrared LED Consumption Value, (USD Million): 2019 & 2023 & 2030
- Figure 15. Global Infrared LED Consumption Value and Forecast (2019-2030) & (USD Million)
- Figure 16. Global Infrared LED Sales Quantity (2019-2030) & (K Units)
- Figure 17. Global Infrared LED Average Price (2019-2030) & (USD/Unit)
- Figure 18. Global Infrared LED Sales Quantity Market Share by Manufacturer in 2023
- Figure 19. Global Infrared LED Consumption Value Market Share by Manufacturer in 2023
- Figure 20. Producer Shipments of Infrared LED by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023
- Figure 21. Top 3 Infrared LED Manufacturer (Consumption Value) Market Share in 2023
- Figure 22. Top 6 Infrared LED Manufacturer (Consumption Value) Market Share in 2023
- Figure 23. Global Infrared LED Sales Quantity Market Share by Region (2019-2030)
- Figure 24. Global Infrared LED Consumption Value Market Share by Region (2019-2030)
- Figure 25. North America Infrared LED Consumption Value (2019-2030) & (USD Million)
- Figure 26. Europe Infrared LED Consumption Value (2019-2030) & (USD Million)
- Figure 27. Asia-Pacific Infrared LED Consumption Value (2019-2030) & (USD Million)
- Figure 28. South America Infrared LED Consumption Value (2019-2030) & (USD Million)

Figure 29. Middle East & Africa Infrared LED Consumption Value (2019-2030) & (USD Million)

Figure 30. Global Infrared LED Sales Quantity Market Share by Type (2019-2030)

Figure 31. Global Infrared LED Consumption Value Market Share by Type (2019-2030)

Figure 32. Global Infrared LED Average Price by Type (2019-2030) & (USD/Unit)

Figure 33. Global Infrared LED Sales Quantity Market Share by Application (2019-2030)

Figure 34. Global Infrared LED Consumption Value Market Share by Application (2019-2030)

Figure 35. Global Infrared LED Average Price by Application (2019-2030) & (USD/Unit)

Figure 36. North America Infrared LED Sales Quantity Market Share by Type (2019-2030)

Figure 37. North America Infrared LED Sales Quantity Market Share by Application (2019-2030)

Figure 38. North America Infrared LED Sales Quantity Market Share by Country (2019-2030)

Figure 39. North America Infrared LED Consumption Value Market Share by Country (2019-2030)

Figure 40. United States Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Canada Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 42. Mexico Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 43. Europe Infrared LED Sales Quantity Market Share by Type (2019-2030)

Figure 44. Europe Infrared LED Sales Quantity Market Share by Application (2019-2030)

Figure 45. Europe Infrared LED Sales Quantity Market Share by Country (2019-2030)

Figure 46. Europe Infrared LED Consumption Value Market Share by Country (2019-2030)

Figure 47. Germany Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 48. France Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 49. United Kingdom Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 50. Russia Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 51. Italy Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 52. Asia-Pacific Infrared LED Sales Quantity Market Share by Type (2019-2030)

Figure 53. Asia-Pacific Infrared LED Sales Quantity Market Share by Application (2019-2030)

Figure 54. Asia-Pacific Infrared LED Sales Quantity Market Share by Region (2019-2030)

Figure 55. Asia-Pacific Infrared LED Consumption Value Market Share by Region (2019-2030)

Figure 56. China Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 57. Japan Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 58. Korea Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 59. India Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 60. Southeast Asia Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 61. Australia Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 62. South America Infrared LED Sales Quantity Market Share by Type (2019-2030)

Figure 63. South America Infrared LED Sales Quantity Market Share by Application (2019-2030)

Figure 64. South America Infrared LED Sales Quantity Market Share by Country (2019-2030)

Figure 65. South America Infrared LED Consumption Value Market Share by Country (2019-2030)

Figure 66. Brazil Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 67. Argentina Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 68. Middle East & Africa Infrared LED Sales Quantity Market Share by Type (2019-2030)

Figure 69. Middle East & Africa Infrared LED Sales Quantity Market Share by Application (2019-2030)

Figure 70. Middle East & Africa Infrared LED Sales Quantity Market Share by Region (2019-2030)

Figure 71. Middle East & Africa Infrared LED Consumption Value Market Share by Region (2019-2030)

Figure 72. Turkey Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. Egypt Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Saudi Arabia Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 75. South Africa Infrared LED Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 76. Infrared LED Market Drivers

Figure 77. Infrared LED Market Restraints

Figure 78. Infrared LED Market Trends

Figure 79. Porters Five Forces Analysis

Figure 80. Manufacturing Cost Structure Analysis of Infrared LED in 2023

Figure 81. Manufacturing Process Analysis of Infrared LED

Figure 82. Infrared LED Industrial Chain

Figure 83. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 84. Direct Channel Pros & Cons

Figure 85. Indirect Channel Pros & Cons

Figure 86. Methodology

Figure 87. Research Process and Data Source

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