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Global IR 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 IR LED market size was valued at USD 460.6 million in 2023 and is forecast to a readjusted size of USD 796.3 million by 2030 with a CAGR of 8.1% 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 IR LED market is gaining popularity in remote-controlled advanced security cameras, which help to keep a surveillance check, especially on the consumer goods in retail sector. Each of these cameras consists of multiple rings of IR LEDs to provide night vision capabilities, thus there could be from 20 to 40 IR LEDs sold with each camera. However, as the market for sensors in smartphones and tablets is witnessing saturation, the IR LED market is also observing slight saturation, in terms of advanced technologies & designs, which is expected to restrain the market growth.

The Global Info Research report includes an overview of the development of the IR LED industry chain, the market status of Optical Sensing (IR LED Chip, IR LED Package), Automated Drive Systems (IR LED Chip, IR LED Package), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of IR LED.

Regionally, the report analyzes the IR LED markets in key regions. North America and

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Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global IR LED market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the IR 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 IR 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., IR LED Chip, IR LED Package).

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 LED market.

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

Company Analysis: Report covers individual IR 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

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attitudes towards IR LED This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Optical Sensing, Automated Drive Systems).

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

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

IR 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

IR LED Chip

IR LED Package

Market segment by Application

Optical Sensing

Automated Drive Systems

Security & Surveillance

Others

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Major players covered

NICHIA CORPORATION

Kingbright Electronic Co., Ltd

OSRAM Opto Semiconductors GmbH

Epistar Corporation

Everlight Electronics Co. Ltd.

High Power Lighting Corporation

EPILEDS Co. Ltd.

ON Semiconducts

Koninklijke Philips N.V.

Lextar Electronics Corporation

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:

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Chapter 1, to describe IR LED product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the IR 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 IR 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 IR LED.

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

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