

Global Infrared Light-emitting Diode 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 Light-emitting Diode market size was valued at USD 420.4 million in 2023 and is forecast to a readjusted size of USD 808.9 million by 2030 with a CAGR of 9.8% during review period.

An IR LED (infrared light emitting diode) is a solid state lighting (SSL) device that emits light in the infrared range of the electromagnetic radiation spectrum. IR LEDs allow for cheap, efficient production of infrared light, which is electromagnetic radiation in the 700 nm to 1mm range. IR LEDs are useful in a number of types of electronics, including many types of remote controls for televisions and other electronics. Used with infrared cameras, IR LEDs can act like a spot light while remaining invisible to the naked eye.

IR LEDs can be used in conjunction with a number of different types of sensors, they are becoming common in machine-to-machine (M2M) environments and Internet of Things (IoT) applications.

The Global Info Research report includes an overview of the development of the Infrared Light-emitting Diode industry chain, the market status of Surveillance (Gallium Arsenide LED, Aluminium Gallium Arsenide LED), Consumer Electronics (Gallium Arsenide LED, Aluminium Gallium Arsenide LED), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Infrared Light-emitting Diode.

Regionally, the report analyzes the Infrared Light-emitting Diode 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 Light-emitting Diode market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Infrared Light-emitting Diode 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 Light-emitting Diode 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., Gallium Arsenide LED, Aluminium Gallium Arsenide LED).

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 Light-emitting Diode market.

Regional Analysis: The report involves examining the Infrared Light-emitting Diode 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 Light-emitting Diode 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 Light-emitting Diode:

Company Analysis: Report covers individual Infrared Light-emitting Diode 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 Light-emitting Diode. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Surveillance, Consumer Electronics).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Infrared Light-emitting Diode 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 Light-emitting Diode 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

Gallium Arsenide LED

Aluminium Gallium Arsenide LED

Market segment by Application

Surveillance

Consumer Electronics

Automotive

Others

Major players covered

Epileds

Epistar

Everlight

Nichia

Osram Opto Semiconductors

Vishay Intertechnology

Cree

High Power Lighting

Lextar Electronics

Lite-On Technology

Lumileds

MLs Electronics

Toyoda Gosei

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 Light-emitting Diode product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Infrared Light-emitting Diode 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 Light-emitting Diode 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 Light-emitting Diode.

Chapter 14 and 15, to describe Infrared Light-emitting Diode sales channel, distributors, customers, research findings and conclusion.

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