

Infrared LED Market Size, Share, and Outlook, 2025 Report- By Application (Imaging, Lighting, Surveillance, Biometrics, Optical Sensing), By Photodiode Spectral Range (700 to 1500nm, 1500 to 1750nm, Above 1750nm), By End-User (Consumer Electronics, Automotive, Government and Defense, Residential, Commercial Offices, Healthcare and Hospitality, BFSI, Retail, Industrial and Manufacturing, Education), By Function (Emitters, Receivers, Transceivers, Detectors), By Technology (IR LED chip, IR LED package), By Power (Low, Medium, High), 2018-2032

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Abstracts

Infrared LED Market Outlook

The Infrared LED Market size is expected to register a growth rate of 14.2% during the forecast period from \$825.01 Million in 2025 to \$2089.9 Million in 2032. The Infrared LED market is a thriving business that is poised to keep growing and presents potential growth opportunities for companies across the industry value chain.

The comprehensive market research report presents 12-year historic and forecast data on Infrared LED segments across 22 countries from 2021 to 2032. Key segments in the report include By Application (Imaging, Lighting, Surveillance, Biometrics, Optical Sensing), By Photodiode Spectral Range (700 to 1500nm, 1500 to 1750nm, Above

1750nm), By End-User (Consumer Electronics, Automotive, Government and Defense, Residential, Commercial Offices, Healthcare and Hospitality, BFSI, Retail, Industrial and Manufacturing, Education), By Function (Emitters, Receivers, Transceivers, Detectors), By Technology (IR LED chip, IR LED package), By Power (Low, Medium, High). Over 70 tables and charts showcase findings from our latest survey report on Infrared LED markets.

Infrared LED Market Insights, 2025

The Infrared LED market is growing as infrared LEDs find applications in various industries, including consumer electronics, automotive, security, and healthcare. Infrared LEDs emit light in the infrared spectrum, which is invisible to the human eye but can be detected by infrared sensors. These LEDs are widely used in remote controls, security cameras, night vision devices, and medical devices for non-invasive monitoring. The increasing adoption of security cameras and surveillance systems, especially in smart homes and businesses, is a major driver for the infrared LED market. Additionally, advancements in automotive technology, such as infrared sensors for autonomous vehicles, are boosting demand. The growing use of infrared LEDs in medical diagnostics and treatment, such as in phototherapy devices, is another factor contributing to the market's expansion. With technological innovations and applications expanding across industries, the infrared LED market is expected to continue to grow.

Five Trends that will define global Infrared LED market in 2025 and Beyond

A closer look at the multi-million market for Infrared LED identifies rapidly shifting consumer preferences across categories. By focusing on growth and resilience, leading Infrared LED companies are prioritizing their investments across categories, markets, and geographies. The report analyses the most important market trends shaping the new landscape to support better decisions for the long and short-term future. The impact of tariffs by the US administration also significantly impact the profitability of Infrared LED vendors.

What are the biggest opportunities for growth in the Infrared LED industry?

The Infrared LED sector demonstrated remarkable resilience over the past year across developed and developing economies. Further, the market presents significant opportunities to leverage the existing momentum towards actions by 2032. On the other hand, recent macroeconomic developments including rising inflation and supply chain disruptions are putting pressure on companies. The chapter assists users to identify

growth avenues and address business challenges to make informed commercial decisions with unique insights, data forecasts, and in-depth market analyses.

Infrared LED Market Segment Insights

The Infrared LED industry presents strong offers across categories. The analytical report offers forecasts of Infrared LED industry performance across segments and countries. Key segments in the industry include%li%By Application (Imaging, Lighting, Surveillance, Biometrics, Optical Sensing), By Photodiode Spectral Range (700 to 1500nm, 1500 to 1750nm, Above 1750nm), By End-User (Consumer Electronics, Automotive, Government and Defense, Residential, Commercial Offices, Healthcare and Hospitality, BFSI, Retail, Industrial and Manufacturing, Education), By Function (Emitters, Receivers, Transceivers, Detectors), By Technology (IR LED chip, IR LED package), By Power (Low, Medium, High). The largest types, applications, and sales channels, fastest growing segments, and the key factors driving each of the categories are included in the report.

Forecasts of each segment across five regions are provided from 2021 through 2032 for Asia Pacific, North America, Europe, South America, Middle East, and African regions. In addition, Infrared LED market size outlook is provided for 22 countries across these regions.

Market Value Chain

The chapter identifies potential companies and their operations across the global Infrared LED industry ecosystem. It assists decision-makers in evaluating global Infrared LED market fundamentals, market dynamics, and disruptive trends across the value chain segments.

Scenario Analysis and Forecasts

Strategic decision-making in the Infrared LED industry is multi-faceted with the increased need for planning across scenarios. The report provides forecasts across three case scenarios%li%low growth, reference case, and high growth cases.

Asia Pacific Infrared LED Market Analysis%li%A Promising Growth Arena for Business Expansion

As companies increasingly expand across promising Asia Pacific markets with over 4.5

billion population, the medium-to-long-term future remains robust. The presence of the fastest-growing economies such as China, India, Thailand, Indonesia, and Vietnam coupled with strengthening middle-class populations and rising disposable incomes drive the market. In particular, China and India are witnessing rapid shifts in consumer purchasing behavior. China is recovering steadily with optimistic forecasts for 2025. Further, Japanese and South Korean markets remain stable with most companies focusing on new product launches and diversification of sales channels.

The State of Europe Infrared LED Industry 2025%li%Focus on Accelerating Competitiveness

As companies opt for an integrated agenda for competitiveness, the year 2025 presents optimistic scenarios for companies across the ecosystem. With signs of economic recovery across markets, companies are increasing their investments. Europe is one of the largest markets for Infrared LED with demand from both Western Europe and Eastern European regions increasing over the medium to long-term future. Increasing omnichannel shopping amidst robust consumer demand for value purchases shapes the market outlook. The report analyses the key Infrared LED market drivers and opportunities across Germany, France, the United Kingdom, Spain, Italy, Russia, and other Europe.

The US Infrared LED market Insights%li%Vendors are exploring new opportunities within the US Infrared LED industry.

Easing inflation coupled with strengthening consumer sentiment is encouraging aggressive actions from the US Infrared LED companies. Market players consistently focusing on innovation and pursuing new ways to create value are set to excel in 2025. In addition, the Canadian and Mexican markets offer lucrative growth pockets for manufacturers and vendors. Focus on private-brand offerings and promotions, diversified sales channels, expansion into niche segments, adoption of advanced technologies, and sustainability are widely observed across the North American Infrared LED market.

Latin American Infrared LED market outlook rebounds in line with economic growth.

Underlying demand remains higher among urban consumers with an optimistic economic outlook across Brazil, Argentina, Chile, and other South and Central American countries. Increased consumer spending has been reported in Q1 -2025 and the prospects remain strong for rest of 2025. Aggressive ecosystem moves to create

new sources of income are widely observed across markets in the region. Marketing activities focused on customer insights, operations, and support functions are quickly gaining business growth in the region.

Middle East and Africa Infrared LED Markets%li%New Opportunities for Companies Harnessing Diversity

Rapid growth in burgeoning urban locations coupled with a young and fast-growing population base is attracting new investments in the Middle East and African Infrared LED markets. Designing expansion and marketing strategies to cater to the local consumer base supports the market prospects. In addition to Nigeria, Algeria, South Africa, and other markets, steady growth markets in Ethiopia, Rwanda, Ghana, Tanzania, the Democratic Republic of Congo, and others present significant prospects for companies. On the other hand, Middle Eastern Infrared LED markets including the UAE, Saudi Arabia, Qatar, and Oman continue to offer lucrative pockets of growth.

Competitive Landscape%li%How Infrared LED companies outcompete in 2025?

The ability to respond quickly to evolving consumer preferences and adapt businesses to niche consumer segments remains a key growth factor. The report identifies the leading companies in the industry and provides their revenue for 2024. The market shares of each company are also included in the report. Further, business profiles, SWOT analysis, and financial analysis of each company are provided in detail. Key companies analyzed in the report include Epistar, Epitex, Everlight Electronics, High power Lighting, Larson Electronics, Lextar (AU Optronics), Nichia, Osram (Siemens), Philips, Vishay.

Infrared LED Market Segmentation

By Application

Imaging

Lighting

Surveillance

Biometrics

Optical Sensing

By Photodiode Spectral Range

700 to 1500nm

1500 to 1750nm

Above 1750nm

By End-User

Consumer Electronics

Automotive

Government and Defense

Residential

Commercial Offices

Healthcare and Hospitality

BFSI

Retail

Industrial and Manufacturing

Education

By Function

Emitters

Receivers

Transceivers

Detectors

By Technology

IR LED chip

IR LED package

By Power

Low

Medium

High

Leading Companies

Epistar

Epitex

Everlight Electronics

High power Lighting

Larson Electronics

Lextar (AU Optronics)

Nichia

Osram (Siemens)

Philips

Vishay

Reasons to Buy the report

Make informed decisions through long and short-term forecasts across 22 countries and segments.

Evaluate market fundamentals, dynamics, and disrupting trends set to shape 2025 and beyond.

Gain a clear understanding of the competitive landscape, with product portfolio and growth strategies.

Get an integrated understanding of the entire market ecosystem and companies.

Stay ahead of the competition through plans for growth in a changing environment for your geographic expansion.

Assess the impact of advanced technologies and identify growth opportunities based on actionable data and insights.

Get free Excel spreadsheet and PPT versions along with the report PDF.

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By Application

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Lighting

Surveillance

Biometrics

Optical Sensing

By Photodiode Spectral Range

700 TO 1500NM

1500 TO 1750NM

Above 1750nm

By End-User

Consumer Electronics

Automotive

Government and Defense

Residential

Commercial Offices

Healthcare and Hospitality

BFSI

Retail

Industrial and Manufacturing

Education
By Function
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IR LED chip
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By Power
Low
Medium
High

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Epitex

Everlight Electronics

High power Lighting

Larson Electronics

Lextar (AU Optronics)

Nichia

Osram (Siemens)

Philips

Vishay

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