

# Infrared LED Market Supporting Diverse Applications from Sensing to Communication Technologies | 2025 - 2034

*Infrared LEDs revolutionize sensing, communication, and security applications with advancements in precision, energy efficiency, and miniaturization*

CALIFORNIA, CA, UNITED STATES, February 7, 2025 /EINPresswire.com/ -- "Powering Your Success with Comprehensive Market Insights"

[Infrared Led Market](#) □□□□□□□□ (□□□□ □□ □□□□)



Infrared Led Market valued at approximately \$1.5 billion in 2024 estimated value of \$2.8 billion by the end of 2034 (CAGR) of 7.2%.

The Infrared LED Market is anticipated to grow significantly, with a valuation of over \$790 million in 2023 and a projected CAGR of 15% from 2024 to 2032.



Rising demand for infrared LEDs is driven by their applications in remote sensing, biometric security, and smart devices requiring efficient light sources"

*Exactitude Consultancy*

This growth is driven by increased adoption of infrared LEDs in healthcare devices, smart home appliances, and security systems. The market is characterized by advancements in technology and expanding applications across various sectors, including biometric systems and imaging. North America is expected to hold a substantial market share due to high demand for advanced technologies and smart devices. However, challenges such as high costs and competition from alternative

technologies may impact market growth.

Key Growth Drivers:

Healthcare Devices: The adoption of IR LEDs in medical equipment for applications like pulse oximetry and imaging is expanding.

Banking, Financial Services, and Insurance (BFSI): There's a growing usage of IR LEDs in BFSI sectors, particularly in security and authentication systems.

Smart Home Appliances: The rising demand for smart home technologies is contributing to the increased use of IR LEDs in various devices.

Surveillance and Security Cameras: IR LEDs are increasingly being integrated into surveillance systems to enhance night vision capabilities.

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1- Country level analysis for any 5 countries of your choice.

2- Competitive analysis of any market players.

3- 40 analyst hours to cover any other data points

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□□ □□□□□ □ □□□ □□□□□ □□□□□□: Osram Opto Semiconductors, Vishay Intertechnology, Nichia Corporation, Cree, Inc., Broadcom Inc., Lite-On Technology Corporation, Everlight Electronics Co., Ltd., ROHM Semiconductor, Samsung Electronics, Avago Technologies, Lumileds Holding B.V., Kaga Electronics, Kingbright Electronic Co., Ltd., Omron Corporation, Jaycar Electronics, TMS (Techno Manaka Systems), Aisystem, Advance Optical Technology, EDISON Opto, ALLNOVA and other.

□□□ 10-25% □□□□□□□ □ □□□□□□□ □□□□□□□ □

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The Global Infrared Led Market segments and Market Data Break Down are illuminated below:

Product Type

- Continuous Wave Infrared LEDs

- Pulsed Infrared LEDs

#### Wavelength Range

- Near Infrared (NIR) LEDs (700-1400 nm)
- Mid Infrared (MIR) LEDs (1400-3000 nm)
- Far Infrared (FIR) LEDs (3000 nm and above)

#### Application

- Consumer Electronics (Smartphones, TVs, etc.)
- Automotive (Night Vision, Safety Systems)
- Industrial (Sensors, Remote Controls)
- Healthcare (Thermal Imaging, Medical Devices)
- Military & Defense (Surveillance, Targeting)
- Telecommunications (Optical Fibre Communication)

#### End User

- Residential
- Commercial
- Industrial

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Region Included are: North America, Europe, Asia Pacific, Oceania, South America, Middle East & Africa

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Chapter 01 - Infrared Led Executive Summary

Chapter 02 - Market Overview

Chapter 03 - Key Success Factors

Chapter 04 - Global Infrared Led Market - Pricing Analysis

Chapter 05 - Global Infrared Led Market Background or History

Chapter 06 - Global Infrared Led Market Segmentation (e.g. Type, Application)

Chapter 07 - Key and Emerging Countries Analysis Worldwide Infrared Led Market

Chapter 08 - Global Infrared Led Market Structure & worth Analysis

Chapter 09 - Global Infrared Led Market Competitive Analysis & Challenges

Chapter 10 - Assumptions and Acronyms

Chapter 11 - Infrared Led Market Research Method

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In order to better understand market conditions five forces analysis is conducted that includes the Bargaining power of buyers, Bargaining power of suppliers, Threat of new entrants, Threat of substitutes, and Threat of rivalry.

Political (Political policy and stability as well as trade, fiscal, and taxation policies)

Economical (Interest rates, employment or unemployment rates, raw material costs, and foreign exchange rates)

Social (Changing family demographics, education levels, cultural trends, attitude changes, and changes in lifestyles)

Technological (Changes in digital or mobile technology, automation, research, and development)

Legal (Employment legislation, consumer law, health, and safety, international as well as trade regulation and restrictions)

Environmental (Climate, recycling procedures, carbon footprint, waste disposal, and sustainability)

Can I modify the scope of the report and customize it to suit my requirements?  
Yes. Customized, multi-dimensional, in-depth, and high-quality insights empower our customers to seize market opportunities, tackle challenges, craft effective strategies, and act swiftly—gaining a competitive edge with ample time and space to succeed.

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- competitive analysis of 5 key market players.
- 40 free analyst hours to cover any other data point.

Fixed Mobile Convergence (FMC) Market: The global Fixed-Mobile Convergence (FMC) market has experienced significant growth, with the market size increasing from \$5.84 billion in 2023 to \$6.67 billion in 2024, reflecting a compound annual growth rate (CAGR) of 14.2%. Looking ahead, the FMC market is projected to continue its upward trajectory, reaching approximately \$17.08 billion by 2032.

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<https://exactitudeconsultancy.com/reports/45546/fixed-mobile-convergence-market>

5G Base Station Market: The global 5G base station market is experiencing significant growth, driven by the escalating demand for high-speed connectivity and the proliferation of Internet of Things (IoT) devices. In 2024, the market was valued at approximately USD 28.44 billion. Projections indicate that by 2034, the market is expected to reach around USD 192.91 billion, reflecting a compound annual growth rate (CAGR) of approximately 37.2% over the forecast period.

<https://exactitudeconsultancy.com/reports/45597/5g-base-station-market>

Chip On Board LED Market: The global Chip On Board LED (CoB) Market is valued at approximately \$8.7 billion in 2024, with projections indicating significant growth, reaching an estimated \$14.3 billion by 2034. This represents a Compound Annual Growth Rate (CAGR) of around 5.1% during the forecast period from 2025 to 2034.

<https://exactitudeconsultancy.com/reports/45704/chip-on-board-led-market>

Smartphone Display Market: The global Smartphone Display Market size was valued at \$107

billion in 2024, and projected to reach \$165 billion by 2034, with a CAGR of 4.5%

<https://exactitudeconsultancy.com/reports/45742/smartphone-display-market>

Airport operations Market: In 2024, the global airport operations market was valued at approximately USD 270.26 billion. Projections indicate that by 2034, this market will reach around USD 565.88 billion, reflecting a Compound Annual Growth Rate (CAGR) of

<https://exactitudeconsultancy.com/reports/45842/global-airport-operations-market>

Plastic Rigid IBC Market: Plastic Rigid IBC Market size is expected to be worth around \$5.6 billion by 2034, from \$3.5 billion in 2024, growing at a CAGR of 4.8% (2025-2034)

<https://exactitudeconsultancy.com/reports/45908/plastic-rigid-ibc-market>

Geotechnical Engineering Market: Geotechnical Engineering Market is anticipated to reach a valuation of \$11.5 billion in 2024 potentially escalating to approximately \$17.8 billion by 2034 at a (CAGR) 4.4%.

<https://exactitudeconsultancy.com/reports/46031/geotechnical-engineering-market>

Captive Hydrogen Generation Market: Captive Hydrogen Generation Market size was valued at USD 25 billion in 2024 and is set to exceed USD 50 billion by 2034, registering over 9% CAGR

<https://exactitudeconsultancy.com/reports/45630/captive-hydrogen-generation-market>

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