

Global IR LED Market Growth 2026-2032

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Abstracts

The global IR LED market size is predicted to grow from US\$ 293 million in 2025 to US\$ 409 million in 2032; it is expected to grow at a CAGR of 4.9% from 2026 to 2032.

In 2025, global infrared LED production capacity is approximately 800 million units, with actual production reaching around 600 million units. The average global market price is about US\$0.50 per unit. The overall market gross profit margin mainly ranges from 25% to 35%. An infrared LED (Infrared Light Emitting Diode) is a semiconductor optoelectronic device that emits infrared radiation when an electric current passes through it. Unlike visible LEDs, infrared LEDs produce light with wavelengths typically ranging from 700 nm to 1,000 nm or longer, which is invisible to the human eye but can be detected by electronic sensors and cameras. Infrared LEDs are widely used as light sources in sensing, communication, and illumination applications, including remote controls, surveillance cameras, night vision systems, optical sensors, and biometric recognition devices. Due to their advantages such as low power consumption, compact size, long service life, and fast response speed, infrared LEDs have become an essential component in many electronic and optoelectronic systems. With the development of smart devices, automotive electronics, and security systems, infrared LEDs are evolving toward higher efficiency, higher output power, and more integrated packaging technologies. The upstream of the infrared LED industry chain mainly includes semiconductor materials, epitaxial wafers, substrates, packaging materials, and production equipment. Key materials involve gallium arsenide (GaAs), gallium aluminum arsenide (AlGaAs), sapphire substrates, and optical packaging components such as lenses and lead frames. The midstream focuses on infrared LED chip manufacturing, packaging, and module integration, covering processes such as epitaxy growth, wafer fabrication, chip processing, and device packaging. The downstream applications span consumer electronics, automotive electronics, industrial automation, security and surveillance, medical equipment, and smart home devices. In addition to device sales, the industry chain also extends to optical modules, sensor integration, and

system-level solutions, forming a relatively mature and globally distributed supply chain structure.

The infrared LED market is driven by the rapid expansion of sensing and imaging technologies across multiple industries. One of the most important growth drivers is the widespread adoption of infrared-based sensing systems in consumer electronics, such as smartphones, tablets, and smart home devices. Infrared LEDs are widely used in proximity sensing, facial recognition, gesture control, and optical communication, creating strong demand in the consumer electronics sector.

The security and surveillance industry is another key driver of the infrared LED market. Night vision cameras, intelligent monitoring systems, and smart city infrastructure rely heavily on infrared illumination to provide clear imaging in low-light environments. As global investments in public safety and intelligent monitoring systems increase, the demand for high-performance infrared LEDs continues to grow.

Automotive electronics is also emerging as an important application field. Infrared LEDs are increasingly used in driver monitoring systems (DMS), in-cabin sensing, and advanced driver assistance systems (ADAS). With the development of autonomous driving and intelligent vehicle technologies, the demand for infrared sensing components is expected to increase steadily in the coming years.

LP Information, Inc. (LPI) ' newest research report, the "IR LED Industry Forecast" looks at past sales and reviews total world IR LED sales in 2025, providing a comprehensive analysis by region and market sector of projected IR LED sales for 2026 through 2032. With IR LED sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world IR LED industry.

This Insight Report provides a comprehensive analysis of the global IR LED landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on IR LED portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global IR LED market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for IR LED and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and

quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global IR LED.

This report presents a comprehensive overview, market shares, and growth opportunities of IR LED market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

850 nm IR LED

880 nm IR LED

940 nm IR LED

Others

Segmentation by Package Type:

Through-hole

SMD

Segmentation by Radiation Pattern:

Narrow Beam

Wide Beam

Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Automation

Security

Medical

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global IR LED market?

What factors are driving IR LED market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do IR LED market opportunities vary by end market size?

How does IR LED break out by Type, by Application?

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