

Global IR LED Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G4111F935B9EEN.html>

Date: April 2026

Pages: 106

Price: US\$ 4,480.00 (Single User License)

ID: G4111F935B9EEN

Abstracts

The global IR LED market size is expected to reach \$ 423 million by 2032, rising at a market growth of 4.6% CAGR during the forecast period (2026-2032).

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.

This report studies the global IR LED production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IR LED and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of IR LED that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IR LED total production and demand, 2021-2032, (K Units)

Global IR LED total production value, 2021-2032, (USD Million)

Global IR LED production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global IR LED consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: IR LED domestic production, consumption, key domestic manufacturers and share

Global IR LED production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global IR LED production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global IR LED production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global IR LED market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World IR LED market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global IR LED Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global IR LED Market, Segmentation by Type:

850 nm IR LED

880 nm IR LED

940 nm IR LED

Others

Global IR LED Market, Segmentation by Package Type:

Through-hole

SMD

Global IR LED Market, Segmentation by Radiation Pattern:

Narrow Beam

Wide Beam

Global IR LED Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Automation

Security

Medical

Others

Companies Profiled:

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 Answered:

1. How big is the global IR LED market?
2. What is the demand of the global IR LED market?
3. What is the year over year growth of the global IR LED market?
4. What is the production and production value of the global IR LED market?
5. Who are the key producers in the global IR LED market?
6. What are the growth factors driving the market demand?

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