

# Global Lighting Infrared LED Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lighting Infrared LED market size is expected to reach \$ 179 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

In 2025, global lighting infrared LED production capacity is approximately 150 million units, with actual production reaching around 100 million units. The average global market price is about US\$1.20 per unit. The market gross profit margin mainly ranges from 25% to 35%. Lighting infrared LEDs are infrared light-emitting diodes specifically designed to provide infrared illumination for imaging and sensing systems operating in low-light or no-light environments. These devices emit infrared radiation, typically within wavelengths ranging from 730 nm to 950 nm, which cannot be detected by the human eye but can be captured by cameras and optical sensors. Lighting infrared LEDs are commonly used as auxiliary light sources for night vision cameras, surveillance systems, and machine vision equipment, enabling clear image acquisition in darkness or poor lighting conditions. Compared with traditional illumination technologies, infrared LEDs offer advantages such as low power consumption, long lifespan, compact size, and high reliability. With the rapid development of intelligent security systems, smart transportation infrastructure, and industrial machine vision applications, lighting infrared LEDs are increasingly optimized for higher optical power, improved thermal management, and enhanced illumination uniformity to meet the growing performance requirements of imaging systems.

The upstream of the lighting infrared LED industry chain mainly includes semiconductor materials, epitaxial wafers, substrates, packaging materials, and optical components. Key materials involve gallium arsenide (GaAs), aluminum gallium arsenide (AlGaAs), sapphire substrates, phosphor materials, and optical lenses used for beam shaping. The midstream focuses on infrared LED chip manufacturing, packaging, and

illumination module integration, involving epitaxial growth, wafer processing, chip fabrication, and high-power LED packaging technologies. The downstream primarily serves security and surveillance systems, machine vision equipment, smart transportation monitoring, industrial inspection, and biometric imaging devices. In addition to discrete LEDs, manufacturers also supply integrated infrared lighting modules and arrays designed for cameras and sensing systems. The industry chain is relatively mature, with strong collaboration between semiconductor manufacturers, optical component suppliers, and system integrators.

The lighting infrared LED market is primarily driven by the rapid expansion of security and surveillance systems worldwide. With the growing adoption of intelligent monitoring networks, night vision cameras and infrared illumination systems have become essential components for ensuring stable image acquisition in low-light environments. Large-scale deployments in smart cities, public safety infrastructure, transportation monitoring, and commercial security systems continue to create sustained demand for infrared illumination devices. Technological advancements are also reshaping the market landscape. Manufacturers are increasingly developing high-power infrared LEDs, multi-chip arrays, and integrated illumination modules to improve illumination distance and image clarity. In addition, improvements in thermal management, optical design, and packaging technologies are enhancing device efficiency and reliability. Industrial machine vision and intelligent transportation systems are emerging as additional growth areas. Infrared lighting is widely used in automated inspection, license plate recognition, and traffic monitoring. As automation and intelligent imaging technologies continue to expand, demand for stable and high-performance infrared lighting solutions is expected to grow steadily.

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

This report is a detailed and comprehensive analysis of the world market for Lighting Infrared 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 Lighting Infrared LED that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

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

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

Global Lighting Infrared LED production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (K Units), (based on production site)

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

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

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

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

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

This report profiles key players in the global Lighting Infrared 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 EPILEDS TECHNOLOGIES, EPISTAR Corporation, Koninklijke Philips, TE Connectivity, Luna, Marktech Optoelectronics, Everlight Electronics, Excelitas Technologies, High Power Lighting Corporation, Lextar Electronics, 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 Lighting Infrared 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 Lighting Infrared LED Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Lighting Infrared LED Market, Segmentation by Type:

850 nm

880 nm

940 nm

Others

#### Global Lighting Infrared LED Market, Segmentation by Package Type:

Through-hole

SMD

#### Global Lighting Infrared LED Market, Segmentation by Radiation Pattern:

Narrow Beam

Wide Beam

## Global Lighting Infrared LED Market, Segmentation by Application:

Consumer Electronics

Automotive Electronics

Industrial Automation

Security

Medical

Others

## Companies Profiled:

EPILEDS TECHNOLOGIES

EPISTAR Corporation

Koninklijke Philips

TE Connectivity

Luna

Marktech Optoelectronics

Everlight Electronics

Excelitas Technologies

High Power Lighting Corporation

Lextar Electronics

ROHM

Kingbright Electronic

Lite-On

Lumileds

Nichia Corporation

ON Semiconductor

Osram Opto Semiconductors

Ushio OPTO Semiconductors

Vishay Intertechnology

W?rth Elektronik

**Key Questions Answered:**

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

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