

# Global Lighting Infrared LED Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Lighting Infrared LED market size was valued at US\$ 123 million in 2025 and is forecast to a readjusted size of US\$ 179 million by 2032 with a CAGR of 5.5% during review period.

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 is a detailed and comprehensive analysis for global Lighting Infrared LED market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Lighting Infrared LED market size and forecasts, in consumption value (\$

Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lighting Infrared LED market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lighting Infrared LED market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Lighting Infrared LED market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Lighting Infrared LED

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Lighting Infrared LED market based on the following parameters - company overview, sales quantity, revenue, 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.

### **Market Segmentation**

Lighting Infrared LED market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts

for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

850 nm

880 nm

940 nm

Others

#### Market segment by Package Type

Through-hole

SMD

#### Market segment by Radiation Pattern

Narrow Beam

Wide Beam

#### Market segment by Application

Consumer Electronics

Automotive Electronics

Industrial Automation

Security

Medical

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Lighting Infrared LED product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Lighting Infrared LED, with price, sales quantity, revenue, and global market share of Lighting Infrared LED from 2021 to 2026.

Chapter 3, the Lighting Infrared LED competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Lighting Infrared LED breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Lighting Infrared LED market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Lighting Infrared LED.

Chapter 14 and 15, to describe Lighting Infrared LED sales channel, distributors, customers, research findings and conclusion.

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