

Global Infrared (IR) LED Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Infrared (IR) LED market size will reach 942.12 Million USD in 2025 and is projected to reach 1,870.08 Million USD by 2032, with a CAGR of 10.29% (2025-2032). Notably, the China Infrared (IR) LED market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

An Infrared (IR) LED, or Infrared Light Emitting Diode, is a semiconductor device that emits infrared light when an electric current is applied. Unlike visible light LEDs, which emit light within the visible spectrum, IR LEDs emit light in the infrared range, which is beyond the visible spectrum for humans. Infrared light has wavelengths longer than those of visible light and is commonly used for applications where the human eye cannot perceive the emitted light. IR LEDs find diverse applications, including remote controls for electronic devices, night vision systems, surveillance cameras, and communication systems. They are essential components in devices that rely on infrared technology, enabling the transmission and reception of signals and data in various electronic and communication systems.

The major global manufacturers of Infrared (IR) LED include EVERLIGHT, Epistar, Osram, DOWA, Lite-On Technology, Vishay Intertechnology, Luminus, Ushio, AU Optronics (Lextar), Showa Denko (SDK), Lumileds, HPLighting, Kingbright, ON Semiconducts, Rohm Semiconductor, etc. The global players competition landscape in

this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Infrared (IR) LED. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Infrared (IR) LED market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Infrared (IR) LED market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Infrared (IR) LED industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Infrared (IR) LED Include:

EVERLIGHT

Epistar

Osram

DOWA

Lite-On Technology

Vishay Intertechnology

Luminus

Ushio

AU Optronics (Lextar)

Showa Denko (SDK)

Lumileds

HPLighting

Kingbright

ON Semiconducts

Rohm Semiconductor

Infrared (IR) LED Product Segment Include:

700nm-850nm

850nm-940nm

940nm-1020nm

1020nm-1720nm

Infrared (IR) LED Product Application Include:

Security and Surveillance

Iris & Facial Recognition

Automotive

Computer and Office

VR Device

Others

Chapter Scope

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