

Global 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 IR LED market size will reach 618.51 Million USD in 2025 and is projected to reach 1,088.51 Million USD by 2032, with a CAGR of 8.41% (2025-2032). Notably, the China 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 IR LED, or Infrared Light Emitting Diode, is a semiconductor device that emits infrared light when an electric current is applied. Infrared light is beyond the visible spectrum, and IR LEDs are specifically designed to produce light in this wavelength range. These LEDs find various applications, including in remote controls, surveillance cameras, night vision systems, and proximity sensors. In devices like remote controls, IR LEDs emit pulses of infrared light that are detected by a sensor on the receiving device, translating these pulses into commands. In surveillance cameras and night vision systems, IR LEDs illuminate the surroundings with infrared light, making it possible for cameras to capture images in low-light or no-light conditions. IR LEDs are crucial components in many technologies that rely on infrared communication or require visibility in environments where visible light is limited.

The major global manufacturers of IR LED 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. 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 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 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 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 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 IR LED 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

IR LED Product Segment Include:

IR LED Chip

IR LED Package

IR LED Product Application Include:

Optical Sensing

Automated Drive Systems

Security & Surveillance

Others

Chapter Scope

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