

Global High Intensity Discharge (HID) Lamps Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Intensity Discharge (HID) Lamps market size is expected to reach \$ 539 million by 2032, rising at a market growth of -0.1% CAGR during the forecast period (2026-2032).

High-intensity discharge (HID) lamps are high-brightness light sources that emit light through electric arc discharge, causing the gas, metal vapor, or metal halide inside the lamp tube to glow. They typically require a ballast for startup and stable operation. Compared to incandescent and halogen lamps, HID lamps offer higher luminous flux, longer illumination distance, higher luminous efficacy, and longer lifespan. Common types include metal halide lamps, high-pressure sodium lamps, high-pressure mercury lamps, ceramic metal halide lamps, and xenon lamps. Their applications include road lighting, industrial plants, stadiums, ports, commercial lighting, automotive headlights, theaters, plant lighting, and specialized industrial light sources. However, with the maturation of LED lighting technology, traditional HID lamps in road, industrial, and commercial lighting are gradually being replaced by LEDs, although there remains some demand in cinema projection, stage lighting, and specialized high-brightness light sources. The average selling price in 2025 was approximately US\$14 per unit.

High-intensity discharge (HID) lamps are a type of high-brightness lighting product that emits light by exciting gas or metal vapor through an electric arc discharge. They mainly include metal halide lamps, high-pressure sodium lamps, mercury lamps, xenon lamps, and ceramic metal halide lamps. Compared to ordinary incandescent lamps and some traditional lighting products, HID lamps have advantages such as high luminous flux, long illumination distance, high luminous efficacy, wide single-lamp power coverage, and suitability for large-space lighting. They have long been used in road lighting, industrial plants, stadiums, ports, airports, parking lots, commercial lighting, garden

lighting, film and television stages, and automotive lighting. Although the rapid popularization of LED lighting in recent years has put significant pressure on HID lamps to replace them, HID lamps still maintain a certain market demand in some high-power, high-brightness, special spectrum, and existing system replacement scenarios.

From a demand structure perspective, the maintenance and replacement of existing lighting systems is a crucial support for the current HID lamp market. Globally, many roads, factories, warehouses, parking lots, stadiums, and public facilities have long relied on high-pressure sodium lamps, metal halide lamps, and mercury lamps. Due to factors such as equipment upgrade cycles, budget constraints, electrical system compatibility, and maintenance habits, some regions still face ongoing replacement needs. Especially in developing markets, industrial facilities, mines, ports, agricultural facilities, and certain outdoor lighting scenarios, HID lamps, with their mature supply chain, relatively low initial cost, and high unit lighting capacity, still have considerable application potential.

In terms of product structure, metal halide lamps, due to their good color rendering and high brightness, are commonly used in stadiums, commercial spaces, factories, and outdoor lighting; high-pressure sodium lamps, with their high luminous efficacy, strong penetration, and long lifespan, have traditionally been widely used in road, tunnel, port, and municipal lighting; xenon lamps are mainly used in projection, film and television, and special lighting; while ceramic metal halide lamps have some demand in commercial lighting, stage lighting, and high-quality color rendering scenarios. HID lamps can be categorized by power into low-power, medium-power, and high-power products; and by application scenario into road and municipal lighting, industrial lighting, commercial lighting, automotive lighting, horticultural lighting, and professional special lighting.

In terms of the industry chain, the upstream mainly includes suppliers of quartz glass, ceramic arc tubes, tungsten electrodes, metal halides, sodium mercury fillers, lamp holders, electronic ballasts, triggers, glass housings, and encapsulation materials; the midstream consists of HID lamp manufacturers, lighting brand owners, and supporting electrical appliance companies; and the downstream covers municipal engineering, industrial enterprises, automotive parts, commercial lighting, horticulture, sports venues, film and television stages, and lighting engineering channels. The core of industry competition lies not only in luminous efficacy, lifespan, color rendering index, start-up performance, and stability, but also in ballast matching, product reliability, cost control, channel coverage, and after-sales replacement capabilities. With the accelerated replacement of LEDs, companies need to find growth opportunities in specialized niche

scenarios, the existing maintenance market, and cost-effective solutions.

From a regional market perspective, mature markets such as North America, Europe, and Japan are experiencing rapid LED replacement processes, with HID lamp demand primarily concentrated in replacement of existing stock, the automotive aftermarket, horticultural lighting, and some professional lighting applications. In the Asia-Pacific, Latin America, Middle East, and parts of Africa, HID lamp demand remains somewhat driven by infrastructure construction, industrial lighting, urban street lighting, and cost factors.

Looking ahead, the global HID lamp market will exhibit trends of overall volume pressure, structural differentiation, and specialization. On one hand, LED lighting's advantages in energy efficiency, lifespan, intelligent control, and maintenance costs will continue to replace traditional HID lamps in road, municipal, commercial, and industrial lighting. On the other hand, HID lamps will retain some demand in high-brightness, long-distance lighting, special spectrum applications, the automotive aftermarket, and some low-cost replacement scenarios.

This report studies the global High Intensity Discharge (HID) Lamps production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Intensity Discharge (HID) Lamps 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 High Intensity Discharge (HID) Lamps that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Intensity Discharge (HID) Lamps total production and demand, 2021-2032, (K Units)

Global High Intensity Discharge (HID) Lamps total production value, 2021-2032, (USD Million)

Global High Intensity Discharge (HID) Lamps production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High Intensity Discharge (HID) Lamps consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High Intensity Discharge (HID) Lamps domestic production,

consumption, key domestic manufacturers and share

Global High Intensity Discharge (HID) Lamps production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High Intensity Discharge (HID) Lamps production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High Intensity Discharge (HID) Lamps production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Intensity Discharge (HID) Lamps 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 Signify, LEDVANCE, Current Lighting Solutions, Ushio, Venture Lighting International, Fotolec Technologies, Advanced Radiation Corp, Baoding Life Automotive Lighting, 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 High Intensity Discharge (HID) Lamps 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 High Intensity Discharge (HID) Lamps Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Intensity Discharge (HID) Lamps Market, Segmentation by Type:

High Pressure Sodium Lamps

Metal Halide Lamps

Xenon HID Lamps

Others

Global High Intensity Discharge (HID) Lamps Market, Segmentation by Power:

Low Power HID Lamps

Medium Power HID Lamps

High Power HID Lamps

Global High Intensity Discharge (HID) Lamps Market, Segmentation by Light Source Materials:

Quartz Arc Tube

Ceramic Arc Tube

Global High Intensity Discharge (HID) Lamps Market, Segmentation by Application:

Commercial Lighting

Public Facilities

Other

Companies Profiled:

Signify

LEDVANCE

Current Lighting Solutions

Ushio

Venture Lighting International

Fotolec Technologies

Advanced Radiation Corp

Baoding Life Automotive Lighting

Key Questions Answered:

1. How big is the global High Intensity Discharge (HID) Lamps market?
2. What is the demand of the global High Intensity Discharge (HID) Lamps market?
3. What is the year over year growth of the global High Intensity Discharge (HID) Lamps market?
4. What is the production and production value of the global High Intensity Discharge (HID) Lamps market?
5. Who are the key producers in the global High Intensity Discharge (HID) Lamps market?
6. What are the growth factors driving the market demand?

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