

Deep Uv Led Market Outlook 2025-2034: Market Share, and Growth Analysis By Type (P-type Gallium Nitride (PGaN), Aluminum Gallium Nitride (AlGaN), Other Types), By Distribution Channel (Direct, Indirect), By Applications

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Abstracts

The Deep Uv Led Market is valued at USD 3.8 billion in 2025 and is projected to grow at a CAGR of 53.4% to reach USD 178.9 billion by 2034. The Deep UV LED Market focuses on light-emitting diodes (LEDs) that emit ultraviolet (UV) light in the deep UV range (typically wavelengths between 200 nm and 300 nm). These LEDs are increasingly being used in various applications such as water purification, air disinfection, surface sterilization, medical diagnostics, and industrial curing. Deep UV LEDs offer advantages over traditional UV sources like mercury lamps, including smaller size, longer lifespan, lower power consumption, and environmental friendliness (mercury-free). The growing demand for effective and sustainable disinfection and sterilization technologies is a key driver of this market. The Deep UV LED Market saw significant growth, particularly driven by the increased awareness of hygiene and disinfection due to global health concerns. The demand for deep UV LEDs in water purification systems for both residential and industrial use surged. Their application in air disinfection systems for HVAC and portable devices also expanded. The market witnessed advancements in LED chip technology, leading to higher output power and efficiency at shorter wavelengths. Research and development efforts focused on improving the cost-effectiveness and reliability of deep UV LEDs for broader adoption across various applications. The Deep UV LED Market is expected to continue its rapid growth, fueled by the ongoing need for effective disinfection and sterilization solutions and the increasing performance and affordability of the technology. We anticipate wider adoption in medical devices for sterilization and diagnostics, as well as in industrial curing processes. Further improvements in LED efficiency and output power at shorter

wavelengths will open up new applications. The development of more compact and integrated deep UV LED modules will also drive their use in portable and consumer products. The market may also see increased standardization and regulatory support for the use of deep UV LED technology in disinfection applications.

Trends

Key Insights Deep Uv Led Market

Increasing adoption of Deep UV LEDs for water purification in residential, commercial, and industrial applications due to their effectiveness against pathogens and environmental benefits.

Growing use of Deep UV LEDs in air disinfection systems for HVAC, portable air purifiers, and other devices to improve indoor air quality and reduce the spread of airborne diseases.

Advancements in Deep UV LED chip technology leading to higher optical output power and improved energy efficiency, particularly at shorter wavelengths.

Research and development efforts focused on enhancing the reliability, lifespan, and cost-effectiveness of Deep UV LEDs to enable broader adoption across various sectors.

Development of more compact and integrated Deep UV LED modules, facilitating their incorporation into a wider range of portable and consumer products.

The increasing global awareness of the importance of hygiene and effective disinfection, particularly in light of recent health crises.

The advantages of Deep UV LEDs over traditional UV sources, including their smaller size, longer lifespan, lower power consumption, and environmental friendliness (mercury-free).

The growing demand for sustainable and chemical-free disinfection and sterilization technologies across various applications.

Technological advancements that are improving the performance and reducing

the cost of Deep UV LEDs, making them more competitive with traditional UV sources.

Achieving high optical output power and efficiency at shorter Deep UV wavelengths (below 250 nm) remains a technical challenge that affects the performance and cost of these LEDs.

Deep Uv Led Market Segmentation

By Type

P-type Gallium Nitride (PGaN)

Aluminum Gallium Nitride (AlGaN)

Other Types

By Distribution Channel

Direct

Indirect

By Applications

Sterilization

Purification

Water Treatment

Light Source

Other Applications

Key Companies Analysed

LG Corporation

Lite-On Technology Corporation

Stanley Electronics

Nikkiso Corporation Limited

SANAN Optoelectronics

Hongli Zhihui Group

Seoul Viosys Corporation

Crystal IS

Epileds Technologies

HexaTech Incorporated

Sensor Electronic Technology

Inc. (SETi)

RayVio Corporation

Photon Wave Corporation

Nitride Semiconductors Corporation Limited

Bytech Electronics Co. Ltd.

High Power Lighting Corporation

Qingdao Jason Electric Corporation Ltd.

DOWA ELECTRONICS MATERIALS Corporation Limited

Roithner Lasertechnik GmbH

Nichia Corporation

Deep Uv Led Market Analytics

The report employs rigorous tools, including Porter's Five Forces, value chain mapping, and scenario-based modeling, to assess supply–demand dynamics. Cross-sector influences from parent, derived, and substitute markets are evaluated to identify risks and opportunities. Trade and pricing analytics provide an up-to-date view of international flows, including leading exporters, importers, and regional price trends.

Macroeconomic indicators, policy frameworks such as carbon pricing and energy security strategies, and evolving consumer behavior are considered in forecasting scenarios. Recent deal flows, partnerships, and technology innovations are incorporated to assess their impact on future market performance.

Deep Uv Led Market Competitive Intelligence

The competitive landscape is mapped through OG Analysis' proprietary frameworks, profiling leading companies with details on business models, product portfolios, financial performance, and strategic initiatives. Key developments such as mergers & acquisitions, technology collaborations, investment inflows, and regional expansions are analyzed for their competitive impact. The report also identifies emerging players and innovative startups contributing to market disruption.

Regional insights highlight the most promising investment destinations, regulatory landscapes, and evolving partnerships across energy and industrial corridors.

Countries Covered

North America — Deep Uv Led market data and outlook to 2034

United States

Canada

Mexico

Europe — Deep Uv Led market data and outlook to 2034

Germany

United Kingdom

France

Italy

Spain

BeNeLux

Russia

Sweden

Asia-Pacific — Deep Uv Led market data and outlook to 2034

China

Japan

India

South Korea

Australia

Indonesia

Malaysia

Vietnam

Middle East and Africa — Deep Uv Led market data and outlook to 2034

Saudi Arabia

South Africa

Iran

UAE

Egypt

South and Central America — Deep Uv Led market data and outlook to 2034

Brazil

Argentina

Chile

Peru

** We can include data and analysis of additional countries on demand.*

Research Methodology

This study combines primary inputs from industry experts across the Deep Uv Led value chain with secondary data from associations, government publications, trade databases, and company disclosures. Proprietary modeling techniques, including data triangulation, statistical correlation, and scenario planning, are applied to deliver reliable market sizing and forecasting.

Key Questions Addressed

What is the current and forecast market size of the Deep Uv Led industry at global, regional, and country levels?

Which types, applications, and technologies present the highest growth potential?

How are supply chains adapting to geopolitical and economic shocks?

What role do policy frameworks, trade flows, and sustainability targets play in shaping demand?

Who are the leading players, and how are their strategies evolving in the face of global uncertainty?

Which regional “hotspots” and customer segments will outpace the market, and what go-to-market and partnership models best support entry and expansion?

Where are the most investable opportunities—across technology roadmaps, sustainability-linked innovation, and M&A—and what is the best segment to invest over the next 3–5 years?

Your Key Takeaways from the Deep Uv Led Market Report

Global Deep Uv Led market size and growth projections (CAGR), 2024-2034

Impact of Russia-Ukraine, Israel-Palestine, and Hamas conflicts on Deep Uv Led trade, costs, and supply chains

Deep Uv Led market size, share, and outlook across 5 regions and 27 countries, 2023-2034

Deep Uv Led market size, CAGR, and market share of key products, applications, and end-user verticals, 2023-2034

Short- and long-term Deep Uv Led market trends, drivers, restraints, and opportunities

Porter’s Five Forces analysis, technological developments, and Deep Uv Led supply chain analysis

Deep Uv Led trade analysis, Deep Uv Led market price analysis, and Deep Uv Led supply/demand dynamics

Profiles of 5 leading companies—overview, key strategies, financials, and products

Latest Deep Uv Led market news and developments

Additional Support

With the purchase of this report, you will receive

An updated PDF report and an MS Excel data workbook containing all market tables and figures for easy analysis.

7-day post-sale analyst support for clarifications and in-scope supplementary data, ensuring the deliverable aligns precisely with your requirements.

Complimentary report update to incorporate the latest available data and the impact of recent market developments.

** The updated report will be delivered within 3 working days*

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