

Global UV LED Market Size study & Forecast, by Technology (UV-A, UV-B, UV-C), by Power Output (Less than 1W, 1W-5W, More than 5W), by Application (UV Curing, Medical & Scientific, Disinfection, Security, Agriculture, Lithography, Others), by End Use (Industrial, Commercial, Residential) and Regional Analysis, 2023-2030

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Abstracts

Global UV LED Market is valued at approximately USD 1.00 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 19.7% during the forecast period 2023-2030. UV Light Emitting Diodes (LEDs) are semiconductor devices that emit light upon the passage of an electric current from the positive (p-type or anode) terminal to the negative (n-type or cathode) terminal, a phenomenon known as the 'p-n junction'. Each LED is engineered to emit light within a precise and limited range of UV wavelengths. The UV curing process offers numerous advantages, including faster production speeds, reduced energy consumption, and enhanced product quality. As industries seek more sustainable and efficient manufacturing processes, the demand for UV curing systems continues to rise, driving innovation and growth in the market. LEDs are highly energy-efficient and produce significantly less heat compared to traditional lighting sources, leading to reduced energy consumption and lower carbon emissions. With growing sustainability awareness, demand for eco-friendly LEDs rises, leading to widespread adoption of UV LED in residential, commercial, and industrial sectors.

The increasing pollution due to energy consumption and carbon emission is increasing day by day which can be controlled by using energy efficient and less heat emitting systems where UV LED plays a crucial role. According to the International Energy Agency (IEA), In 2022, energy-related CO2 emissions increased by 0.9%, surpassing

36.8 gigatons (Gt). Global carbon dioxide (CO₂) emissions from energy combustion and industrial processes expanded by 0.9%, equating to 321 million metric tons (Mt), reaching a new record peak of 36.8 Gt. Increasing awareness of UV LED benefits drives their application across industries such as healthcare, agriculture, manufacturing, and sanitation. These LEDs offer energy efficiency, environmental friendliness, and precise UV light control, leading to adoption in disinfection, curing, and sensing applications, thus integrating into various industrial processes and products. Furthermore, Government initiatives aimed at promoting energy-efficient products are expected to drive the growth of UV LEDs in the forecast period. These initiatives include incentives, regulations, and policies that encourage the adoption of environmentally friendly lighting solutions. However, Thermal Complications in UV LED where only half of the total electricity is converted into UV Light. At the same time, the rest is dissipated as Heat which makes the consumers switch to better substitutes hindering the growth of the market. Moreover, UV lights, while more costly, demonstrate superior efficacy compared to alternative disinfectants in the medical industry. This tradeoff between quality and cost presents a significant challenge for UV LED technology in penetrating targeted markets.

The key regions considered for the Global UV LED Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the region's rapid industrialization, The primary factor contributing to the largest share in this region is the growing awareness of the advantages associated with UV LEDs among both industrial and individual consumers. North America is expected to grow significantly over the forecast period, Due to the extensive utilization of UV LED technology, particularly in skin treatments and printing industries within North America, the United States is witnessing substantial market expansion. Moreover, heightened demand for air and water purifiers within the country further augments this growth trajectory.

Major market player included in this report are:

Signify Holding

Nordson Corporation

Seoul Viosys

Honle Group

Ams-OSRAM AG

SemiLEDs

Crystal IS, Inc.

Dowa Holdings Co, Ltd.

Nichia Corporation

Nikkiso Co, Ltd.

Recent Developments in the Market:

In October 2021, Signify introduced the Philips UV-C disinfection box, equipped with Philips' UV-C light sources, designed to deactivate viruses on personal objects. This device can effectively inactivate SARS-CoV-2 on surfaces by over 99%, offering a simple and efficient method for disinfecting items such as keys, cell phones, toys, and household items marking a milestone in the UV LED industry.

In February 2024, Seoul Viosys is pleased to unveil its latest UV High Power COB module featuring an innovative modular design. This module provides scalable solutions for various applications and is distinguished by its exceptional flexibility conquering the niches in the market.

In October 2023, H?nle introduced the LED Powerline LC HV, representing top-tier LED curing technology. This device meets critical needs for rapid and efficient drying processes in the printing and coating industries. It offers versatility and high performance, ensuring optimal results as a competitive advantage in the UV LED industry.

Global UV LED Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered – Technology, Power Output, Application, End Use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Technology:

UV-A

UV-B

UV-C

By Power Output:

Less than 1W

1W-5W

More than 5W

By Application:

UV Curing

Medical & Scientific

Disinfection

Security

Agriculture

Lithography

Others

By End Use:

Industrial

Commercial

Residential

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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