

UV LED Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global UV LED market size reached US\$ 674.3 Million in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1,768.3 Million by 2028, exhibiting a growth rate (CAGR) of 16.1% during 2023-2028.

Ultraviolet (UV) light-emitting diodes (LEDs) are solid-state devices that produce light when an electrical current flows from the positive side to the negative side of the circuit. These diodes are environment friendly as they consume less energy and do not contain harmful mercury and produce ozone. They are widely used in industrial curing of printing, coatings, and adhesives and for biological inactivation, molecular detection, and advanced imaging. At present, improvements in their flux density, stability, and life hours have made UV LEDs a viable solution for replacing conventional UV light sources, such as mercury arc lamps, grid lamps, and hot and cold cathode lamps.

UV LED Market Trends:

With the growing prevalence of coronavirus disease (COVID-19), there is a significant rise in the need for novel disinfection technologies for the surface inactivation of the virus. This represents one of the key factors driving the demand for UV LEDs across the globe. Moreover, technological advances in the manufacturing of solid-state UV devices and the escalating demand for environment-friendly methods of producing optoelectronics are contributing to the market growth. Apart from this, the rising adoption of LED technology for UV curing commercial and industrial materials, such as inks, is positively influencing the use of UV LEDs due to their increased efficiency and low cost of ownership. Furthermore, the emerging trend of miniaturization in consumer electronics is propelling the utilization of UV LEDs around the world. Besides this, the expanding application of UV LEDs, such as deoxyribonucleic acid (DNA) analysis and germicidal for air, surface, and water purification, is anticipated to create lucrative

growth opportunities for manufacturers and drive the market in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global UV LED market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on type, material, application and industry vertical.

Breakup by Type:

UV-A

UV-B

UV-C

Breakup by Material:

Silicon Carbide (SiC)

Gallium Nitride (GaN)

Sapphire

Others

Breakup by Application:

Curing

Disinfection/Purification

Indoor Gardening

Counterfeit Detection

Others

Breakup by Industry Vertical:

Healthcare and Medical

Agriculture

Residential

Industrial

Commercial

Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Asahi Kasei Corporation, Dr. Hönle AG, FUJIFILM Corporation, Heraeus Holding GmbH, Koninklijke Philips N.V., Lumileds Holding B.V., Nichia Corporation, Nordson Corporation, Osram Licht AG (ams AG), Phoseon Technology, SemiLEDs Corporation and Seoul Semiconductor Co. Ltd.

Key Questions Answered in This Report

1. What was the size of the global UV LED market in 2022?
2. What is the expected growth rate of the global UV LED market during 2023-2028?
3. What are the key factors driving the global UV LED market?
4. What has been the impact of COVID-19 on the global UV LED market?

5. What is the breakup of the global UV LED market based on the type?
6. What is the breakup of the global UV LED market based on the application?
7. What is the breakup of the global UV LED market based on industry vertical?
8. What are the key regions in the global UV LED market?
9. Who are the key players/companies in the global UV LED market?

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