UV LED Market Size to Surpass USD 6.3 Billion by 2032 Owing to Rising Demand for Sustainable Disinfection Solutions

The UV LED market size was USD 1.1 Bn in 2023 and is expected to reach USD 6.3 Bn by 2032, growing at a CAGR of 21.27% over the forecast period of 2024-2032.

AUSTIN, TX, UNITED STATES, February 24, 2025 /EINPresswire.com/ -- The UV LED market size was USD 1.1 Billion in 2023 and is expected to reach USD 6.3 Billion by 2032, growing at a CAGR of 21.27% over the forecast period of 2024-2032.

The UV LED market is witnessing robust growth, driven by increasing applications in sterilization, disinfection, and industrial curing.

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Some of Major Keyplayers:

- Nichia Corporation – NCSU334B UV-C LED
- Osram Opto Semiconductors – Oslon UV 3636
- Seoul Viosys – Violeds UV-C LED
- Crystal IS – Klaran WD UV-C LED
- LG Innotek – UV-C LED Module
- Lumileds – LUXEON UV U1
- Stanley Electric Co., Ltd. – UV-C LED P8T2226
- Honle UV America Inc. – LED Powerline AC/IC
- Bolb Inc. – Deep UV LED 275nm
- Nitride Semiconductors Co., Ltd. – NS365L-3SV
- Epitop Optoelectronic Co., Ltd. – EpiLED UV-A LED
- Photon Wave Co., Ltd. – PW3535 UV LED
- Dowa Electronics Materials Co., Ltd. – DUV LED 265nm

- Sensor Electronic Technology, Inc. (SETi) – UVClean 265nm LED
- Qingdao Jason Electric Co., Ltd. – UV-C Disinfection Module

By Power Output, Rising Demand for High-Power UV LEDs Drives Market Growth

The 1W-5W segment led the UV LED market in 2023, capturing over 42% revenue share due to its extensive use in disinfection, curing, and medical applications. This dominance is due to near-perfect power efficiency and cost-effectiveness. On the other hand, the more than 5W segment is expected to register the fastest growth during the forecast period, due to its increasing application in industrial and large-scale disinfection occurring at high power ranges. That makes these high-power LEDs especially useful for water purification systems and industrial sterilization where they need superior output capacity to be effective in harsh environments.

By Application, UV Curing Dominates the Market, While Disinfection Poised for Rapid Growth

The UV curing segment dominated the market in 2023, owing to its widespread applications in printing, coating, and adhesive curing. This is effective for processes that have shorter curing times and increased throughput. However, the disinfection and sterilization segment is anticipated to grow at the fastest CAGR during the forecast period owing to the rise in demand for hygiene solutions in healthcare, food safety, and water treatment. The increasing importance of sustainable sterilization & microbial control is expected to drive usage and adoption of UV LEDs over the forecast period across a diverse range of industries, thus contributing to the demand for this market.

By Technology, UV-C Dominates the Market, While UV-A Sees Rapid Growth Potential

The UV-C segment dominated the market in 2023, capturing over 48% of total revenue, primarily due to its superior microbial inactivation capabilities, making it the preferred choice for disinfection applications. The widespread usage of this in water, air, and surface sterilization has contributed to its dominance in the market. On the other hand, the UV-A segment would exhibit the highest growth due to the increasing demand for counterfeit detection and phototherapy solutions. As an increasing number of industries rely on UV-based technologies.

By End-Use, Industrial Sector Dominates, While Healthcare Drives Future Growth

The Industrial segment led the UV LED market in 2023, driven by its extensive use in curing, material testing, and disinfection within manufacturing plants. The dominating position is because of the rising demand for efficient and high-performance industrial solutions based on UV processes, among others. The fastest growth is anticipated in the healthcare segment, driven by the rising adoption of UV LEDs in sterilization, wound healing, and medical phototherapy. The healthcare industry is one of the key propellants that would allow the market of UV LEDs to reach new heights in the next three or four years, as advanced and non-invasive medical treatments become a trend.

UV LED Market Segmentation:

By Technology
- UV-A
- UV-B
- UV-C

By Power Output
- Less than 1W
- 1W -5W
- More than 5W

By Application
- UV curing
- Medical light therapy
- Disinfection & sterilization
- Counterfeit detection
- Optical sensing & instrumentation
- Others

By End - Use
- Industrial
- Commercial
- Residential
- Agriculture
- Healthcare

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By Region, Asia-Pacific Dominates UV LED Market, While North America Grows Rapidly

The Asia-Pacific region dominated the UV LED market in 2023, driven by strong manufacturing capabilities and high demand from the electronics, automotive, and healthcare industries. Major key players on both the production and consumption side. In contrast, North America is projected to be the fastest-growing region in terms of the UV-C LEDs market during the forecast period, primarily driven by the increasing adoption of UV-C LEDs for disinfection applications in the healthcare and commercial sectors. North America's market expansion is further driven by stringent regulatory policies and an increasing focus on sustainable, mercury-free lighting solutions.

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