

## **Ultraviolet Germicidal Irradiation Market - Growth, Trends, Covid-19 Impact, and Forecasts (2023 - 2028)**

Market Report | 2023-01-23 | 112 pages | Mordor Intelligence

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### **Report description:**

The ultraviolet germicidal irradiation market is expected to register a CAGR of 8.9% during the forecast period.

The COVID-19 pandemic significantly impacted the growth of the ultraviolet germicidal irradiation market due to the increased demand for disinfection of hospitals and diagnostic laboratories to reduce airborne and surface bacterial and viral infections. For instance, according to an ACS Publications article, innovative disinfection technologies, including UV radiation, were found to be of tremendous importance in preventing the transmission of COVID-19 in 2020. The increased use of UVC sterilization equipment for air and surface disinfection was noticed during the pandemic. Due to the pandemic, healthcare organizations are now more aware of the benefits of ultraviolet germicidal disinfection, which led to increased product launches by major companies globally. For instance, in February 2021, Airific Systems developed UVHeal SafeAir, one of India's first UVGI systems, tested and certified by the ICMR-CSIR Virology Lab (CCMB) for 99% disinfection against SARS-CoV-2. The key players exhibit a significant interest in producing and launching new practical UVGI products for current and future pandemics, thereby boosting the growth of the market during the forecast period.

In addition, the increasing prevalence of hospital-acquired infections and technological advancements in ultraviolet germicidal irradiation is actively affecting the growth of the market studied.

According to the WHO, out of every 100 patients in acute-care hospitals, seven in wealthy countries and 15 in low- and middle-income countries were likely to acquire at least one healthcare-associated infection (HAI) during their hospital stay in 2022. This increased demand for technologies that effectively eliminate germs and pathogens. The surge in HAI is projected to boost demand for the ultraviolet germicidal irradiation method of disinfection in healthcare institutions, thereby boosting the growth of the market.

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Additionally, the advancements in technology and increasing product approvals, along with partnerships and acquisitions by key players, drive the growth of the market. For instance, in January 2022, Iveda launched its commercial-grade, AI-driven ultraviolet germicidal irradiation (UVGI) product. Iveda Smart UVC vents irradiate all kinds of bacteria and viruses, including COVID-19. By leveraging the existing air circulation system, it disinfects the air by irradiating UV light onto the passing air. This eliminates the need to disinfect offices, meeting rooms, and other workspaces manually. As a result, UVGI technologies have undergone technological advancements, leading to the growth of the market.

Therefore, owing to the abovementioned factors, the market studied is anticipated to witness growth over the forecast period. However, limitations associated with ultraviolet germicidal irradiation (UVGI) are likely to impede the growth of the market.

#### Ultraviolet Germicidal Irradiation Market Trends

##### The Surface Disinfectant Segment is Expected to Hold a Significant Share During the Forecast Period

Hospital-acquired infections (HAI) are prevalent everywhere, including hospitals and laboratories. Surface disinfectants play a major role in healthcare settings and in common people's homes to disinfect areas that are most commonly touched to prevent the transmission of infections.

According to the US FDA, consumers were interested in purchasing ultraviolet-C (UVC) lamps to disinfect surfaces in their homes or similar spaces in 2021. Additionally, as per the International Journal of Environmental Research and Public Health article published in 2021, about 50% of hospital-acquired infections occur in the intensive care unit. Surface disinfectants play a crucial role in preventing infections. Hence, the rising burden of HAIs and the benefits of surface disinfectants have resulted in strong demand for and adoption of UV disinfection equipment across healthcare settings, offices, and other workspaces. These factors are expected to propel the growth of the segment during the forecast period.

Furthermore, technological advancements, product launches, approvals, and partnerships among key players, are also expected to drive the growth of the segment. For instance, in July 2020, UV-Concepts Inc., a provider of ultraviolet light disinfection solutions, launched UV-C Enclosure (UVE) worldwide, automated, no-touch UV-C enclosures designed to improve the standard of manual cleaning and disinfection of large portable medical equipment (PME). Such technological advancements and launches are of significant use in healthcare institutions to sterilize the surfaces of medical devices. They are anticipated to boost the utility of surface disinfectants during the forecast period.

##### North America is Expected to Dominate the Ultraviolet Germicidal Irradiation Market During the Forecast period

North America is expected to dominate the market owing to factors such as the rising incidence of hospital-acquired infections, better healthcare infrastructure, awareness among people and healthcare industry stakeholders about available technologies, and the strong presence of industry players in the region.

Additionally, the rise in chronic diseases like cardiovascular diseases, cancer, and others requires extended hospital stays and surgeries. For instance, according to the AHA, there were approximately 33,356,853 hospital admissions in 2022. Many of these admissions were due to chronic diseases and critical procedures like heart bypass surgery. Thus, the increasing number of hospital admissions is expected to create a need for surface and air disinfection, thereby boosting the market growth in the region.

Furthermore, technological advancements, product launches, and approvals, along with collaborations among key players in the region, are projected to boost the growth of the market. For instance, in January 2022, Steril-Aire, a developer of

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high-performance indoor air quality (IAQ) and ultraviolet germicidal irradiation (UVGI) technologies, launched their Upper-Air Pro+ using UVGI technology. These devices are designed to quickly disinfect indoor air for airborne infections in locations with dense populations. Such launches are anticipated to boost the growth of the market in the region.

Therefore, owing to the abovementioned factors, the market studied is anticipated to grow in the North American region.

#### Ultraviolet Germicidal Irradiation Market Competitor Analysis

The ultraviolet germicidal irradiation market is consolidated in nature due to the presence of a few companies operating globally and regionally. The competitive landscape includes an analysis of a few international and local companies that hold market shares and are well known. Some key players are American Ultraviolet, Angioscore Ltd, UltraViolet Devices Inc., Atlantic Ultraviolet Corporation, Ensavior, General Electric (GE Healthcare), Koninklijke Philips NV, Volcano Corporation, and Halma PLC, among others.

#### Additional Benefits:

The market estimate (ME) sheet in Excel format  
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