

# **UV Infection Control Devices Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Mobile, Stationary, Others), By End User (Hospitals & Clinics, Ambulatory Surgical Centers, Emergency Department, Others), By Region & Competition, 2021-2031F**

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## **Abstracts**

The Global UV Infection Control Devices Market to expand from USD 3.26 Billion in 2025 to USD 6.44 Billion by 2031 at a CAGR of 12.02%. The Global UV Infection Control Devices Market employs ultraviolet electromagnetic radiation in the UV-C spectrum to damage the genetic structure of pathogens, effectively sterilizing air, water, and surfaces in industrial and healthcare settings. This growth is largely underpinned by the increasing frequency of hospital-acquired infections and the strict enforcement of infection prevention guidelines by health regulators. Additionally, the growing operational requirement for automated, touchless disinfection techniques to maintain consistent hygiene levels in busy facilities significantly strengthens the demand for these systems.

A major obstacle that may hinder market progress involves the intrinsic safety dangers of direct UV-C exposure, which can harm human eyes and skin, necessitating rigorous safety measures that might delay implementation. In 2024, the World Health Organization released new data suggesting that, without the immediate adoption of improved infection control strategies, up to 3.5 million patients could die annually from infections acquired in healthcare environments. This vital statistic highlights the critical need for efficient sterilization solutions, even amidst the operational difficulties associated with their deployment.

## Market Driver

Technological improvements in UV-C LED lifespan and efficiency are fundamentally transforming the Global UV Infection Control Devices Market by facilitating the creation of compact, mercury-free, and energy-saving disinfection tools. Progress in solid-state lighting is quickly resolving the output restrictions of older systems, encouraging wider industrial use. For instance, Nichia Corporation announced in an October 2025 press release regarding their new UV-C LED light source that they achieved double the output density of standard models, enabling their partner MIURA to boost water sterilization capacity from 10 to 25 cubic meters per hour. These efficiency gains are speeding up adoption in large-scale sectors such as water treatment, a trend highlighted by Xylem Inc. in February 2025; their 2024 financial report showed total revenue hitting \$8.6 billion, signaling substantial investment in advanced water technologies like UV disinfection.

The increasing occurrence of healthcare-associated infections (HAIs) acts as a second major catalyst, pushing institutions to adopt strict, touchless sterilization methods. There is a critical operational need for automated UV systems that can eliminate multi-drug resistant organisms without leaving chemical residues. As noted by the International Sanitary Supply Association in their October 2025 'Global HAI Data 2025' report, World Health Organization figures show that annual deaths related to antimicrobial resistance have surpassed 5 million globally. This rising mortality rate fuels the pressing need for potent infection prevention tools to augment manual cleaning efforts, making the incorporation of UV disinfection devices into standard hospital protocols an essential measure to lower patient risk and decrease financial liabilities linked to outbreaks.

## Market Challenge

The intrinsic safety risks linked to direct UV-C exposure present a major hurdle for the Global UV Infection Control Devices Market. Because UV-C radiation can inflict serious harm on human eyes and skin, manufacturers must build intricate safety features like remote controls, containment shields, and motion sensors into their products. These essential engineering additions raise manufacturing costs and lengthen development schedules, rendering advanced sterilization options less affordable for facilities with tight budgets. Furthermore, fears regarding liability from accidental exposure in busy areas cause reluctance among users, resulting in slower uptake in occupied zones where continuous disinfection is most needed.

Adherence to strict occupational safety regulations further limits the operational

versatility of these systems. In 2024, the American Conference of Governmental Industrial Hygienists (ACGIH) maintained rigorous Threshold Limit Values (TLVs) for ultraviolet exposure, setting a daily skin exposure cap of roughly 479 millijoules per square centimeter for newer 222 nm UV-C wavelengths during an eight-hour shift. Such tight restrictions compel facility managers to limit the duration and intensity of device usage, which diminishes the effectiveness of quick disinfection cycles and suppresses overall demand for high-power systems.

## Market Trends

The incorporation of Artificial Intelligence and Machine Learning into autonomous UV robots is revolutionizing the industry by moving disinfection procedures from fixed, timer-reliant cycles to adaptive, intelligent operations. In contrast to older systems that adhere to set routes, modern robots employ deep learning algorithms to map spaces in real-time, detecting shadowed regions and adjusting their paths to guarantee thorough pathogen elimination. This functionality resolves the major issue of manual placement errors, ensuring that frequently touched surfaces are not overlooked due to obstacles or human mistakes. For example, a June 2025 press release from Pohang University of Science and Technology detailed how their new AI-powered system reached almost 100% surface coverage in hospital simulations by autonomously adjusting routes around moving obstacles, markedly surpassing traditional pre-programmed devices.

Simultaneously, the trend toward component miniaturization is fostering the creation of handheld and portable sterilization devices, extending market reach from institutional environments to battery-powered, mobile applications. This shift depends largely on advances in UV-C LED wall-plug efficiency, which permit high-intensity output without the power and heat limitations associated with mercury-vapor lamps. As parts become smaller and energy conversion becomes more efficient, companies are producing compact sterilizers that can run effectively on batteries, enabling point-of-use cleaning for medical instruments and portable electronics. Highlighting this progress, Nichia Corporation's January 2025 press release announced that their NCSU434D package reached a record wall-plug efficiency of 7.4%, a key achievement that prolongs battery life in portable units and encourages the wider use of handheld sterilization tools.

## Key Market Players

Xylem Inc.

Trojan Technologies

Halma Group

Atlantic Ultraviolet Corporation

American Ultraviolet

Advanced UV, Inc.

Lumalier Corporation

Hoenle AG

Evoqua Water Technologies LLC

Germitec GmbH

## **Report Scope**

In this report, the Global UV Infection Control Devices Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### UV Infection Control Devices Market, By Type

Mobile

Stationary

Others

### UV Infection Control Devices Market, By End User

Hospitals & Clinics

Ambulatory Surgical Centers

Emergency Department

Others

## UV Infection Control Devices Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

### **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global UV Infection Control Devices Market.

### **Available Customizations:**

Global UV Infection Control Devices Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

### **Company Information**

Detailed analysis and profiling of additional market players (up to five).

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