

# **North America UV Disinfection Equipment Market Forecast to 2030 – Regional Analysis – By Component (UV lamps, Reactor Chambers, Quartz Sleeves, Control Units, and Others), Power Rating (Low, High, and Medium), By Application (Water Disinfection, Air Disinfection, and Surface Disinfection), and End-user (Residential, Commercial, Industrial, and Municipal)**

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## **Abstracts**

The North America UV disinfection equipment market is expected to grow from US\$ 2,023.11 million in 2022 to US\$ 5,332.57 million by 2030. It is estimated to grow at a CAGR of 12.9% from 2022 to 2030.

### **Rise in Use in Healthcare Facilities Fuels North America UV Disinfection Equipment Market**

Disinfection is an inevitable process in hospitals, as it contributes to the safety and security of patients. Hospital facilities are highly exposed to harmful bacteria, viruses, and fungi that can harm the well-being of patients and healthcare workers, visitors, newborns, etc. These healthcare-associated infections (HAI) are commonly transmitted through hospitals, end-stage renal disease facilities, ambulatory surgical centers, and long-term care facilities. As per the US Department of Health and Human Services, ~1 in 31 inpatients have an infection related to hospital care. The World Health Organization (WHO) in its report released in May 2022, stated that 7 out of 100 patients and 15 out of 100 patients in acute-care hospitals in high-income countries and low- and middle-income countries (LMICs), respectively, can acquire at least one HAI during their hospital stay. In addition, on average, 1 in every 10 affected patients would die from the acquired HAI. The report also stated that 70% of these diseases can be prevented by

adopting good hand hygiene and other cost-effective practices. Thus, the need for disinfection equipment to kill the live germ in the air, water, or surfaces for preventing disease transmission and bolstering human safety triggers the adoption of UV disinfectant equipment in the healthcare sector.

UV light has powerful germicidal properties, specifically at 254 nm wavelength. The UV light emitted by UV disinfection equipment penetrates microbial cells, making them nonviable and barring their reproducibility or virulence. This equipment is widely used for water and surface sterilization, and air purification in healthcare facilities, enabling supplementary protection against infection and transmission of diseases. In addition, the COVID-19 pandemic further fueled the UV disinfectant equipment demand in 2020 and 2021. Companies operating in the UV disinfection equipment market are introducing various solutions to cater to the burgeoning demand for UV disinfectant equipment in healthcare facilities.

### North America UV Disinfection Equipment Market Overview

Based on countries, the UV disinfection equipment market in North America is segmented into the US, Canada, and Mexico. Since the early 1970s, clean water has been a national preoccupation. The Federal Water Pollution Control Act (commonly known as the Clean Water Act) was passed by the United States Congress in 1972 to safeguard the country's waters. Due to this statute, the United States Environmental Protection Agency (EPA) and comparable state agencies are authorized to regulate activities that endanger the nation's water resources. The Federal Water Pollution Control Act established a comprehensive national water strategy and a national goal to eliminate pollution discharge into navigable waters. As a result, government attempts to adopt technologically advanced, chemical-free, and environment-friendly disinfection equipment contribute to the UV disinfection equipment market growth in North America. In addition, the region's government is investing to boost their manufacturing industry. In January 2021, the US President announced the plan to strengthen the region's manufacturing sector under the 'Made in America' initiative focused on making technologically advanced and automated manufacturing sectors. With this initiative, the region's government is investing and providing incentives to the players in the manufacturing sectors, further propelling the demand for UV disinfection equipment in the region to enhance the safety of the facilities.

The market players in North America are engaged in several strategic initiatives to fulfill the growing demand for UV disinfection equipment from the industrial, residential, commercial, and municipal sectors and boost their revenue. In March 2023, Xylem

acquired Evoqua Water Technologies, a UV disinfection equipment and service provider. This acquisition helps Xylems to address customers' and communities' critical water challenges with the growing awareness of clean water in the region. In addition, in August 2021, American Ultraviolet partnered with Phoseon Technology to offer solutions to Phoseon Technology as their exclusive LED curing lamp provider. The companies aim to advance LED curing in all UV curing markets with this partnership. Thus, organic and inorganic strategic initiatives help the market players boost their revenue and contribute to the region's UV disinfection equipment market size.

North America UV Disinfection Equipment Market Revenue and Forecast to 2030 (US\$ Million)

North America UV Disinfection Equipment Market Segmentation

The North America UV disinfection equipment market is segmented into component, power rating, application, end user, and country.

Based on component, the North America UV disinfection equipment market is segmented into UV lamps, reactor chambers, quartz sleeves, control units, and others. The UV lamps segment registered the largest North America UV disinfection equipment market share in 2022.

Based on power rating, the North America UV disinfection equipment market is segmented into low, medium, and high. The medium segment registered the largest North America UV disinfection equipment market share in 2022.

Based on application, the North America UV disinfection equipment market is segmented water disinfection, air disinfection, and surface disinfection. The water disinfection segment registered the largest North America UV disinfection equipment market share in 2022. The water disinfection segment is further subsegmented into wastewater treatment plants market and aquaculture market.

Based on end users, the North America UV disinfection equipment market is segmented into residential, commercial, industrial, and municipal. The municipal segment registered the largest North America UV disinfection equipment market share in 2022.

Based on country, the North America UV disinfection equipment market has been categorized into the US, Canada, and Mexico. The US dominated the North America UV disinfection equipment market in 2022.

Advanced UV Inc, American Ultraviolet Inc, Atlantic Ultraviolet Corp, Dr. H?nle AG, Evergreen UV LLC, Halma plc, Kuraray Co Ltd, Trojan Technologies Group ULC, and Xylem Inc are some of the leading companies operating in the UV disinfection equipment market in the region.

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