

Angola Two-Wheeler Market By Vehicle Type (Scooters/Mopeds, Motorcycles), By Propulsion Type (ICE and Electric), By Region, Competition, Forecast & Opportunities, 2018-2028

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Abstracts

Global Ultraviolet(UV) Disinfection Equipment market has experienced tremendous growth in recent years and is poised to maintain strong momentum through 2028. The market was valued at USD 5.63 billion in 2022 and is projected to register a compound annual growth rate of 12.89% during the forecast period.

In recent years, the global Ultraviolet(UV) Disinfection Equipment market has witnessed remarkable expansion, driven by its widespread adoption across diverse industries worldwide. Notably, critical sectors such as healthcare, hospitality and commercial real estate have recognized Ultraviolet(UV) Disinfection Equipment technology as an indispensable component for infection control.

This growth can be attributed to increasingly stringent regulations governing indoor air quality, compelling organizations to invest significantly in advanced Ultraviolet(UV) Disinfection Equipment solutions. These investments have led to the incorporation of essential features like upper room fixtures, portable devices and smart controls, all aimed at achieving compliance and ensuring healthy indoor environments.

Prominent UV disinfection equipment providers have responded to this demand with innovative product offerings featuring enhanced functionalities. Real-time monitoring systems, IoT-enabled solutions and automated process controls have substantially improved productivity and operational efficiency.

The escalating demand for infection control in public spaces such as hospitals, airports

and mass transit stations has provided a significant growth catalyst for the Ultraviolet(UV) Disinfection Equipment market.

The Global Ultraviolet(UV) Disinfection Equipment market is well-positioned for ongoing growth, driven by regulatory support for advanced disinfection and commitment to infection control standards across sectors. These factors are expected to continue driving investments in Ultraviolet(UV) Disinfection Equipment upgrades and new installations. The market's ability to support essential industries through digitally advanced infrastructure bodes well for its future prospects..

Key Market Drivers

Heightened Focus on Water and Wastewater Treatment

One of the primary drivers propelling the Ultraviolet (UV) Disinfection Equipment Market is the heightened global focus on water and wastewater treatment. Access to clean and safe water is a fundamental human need, and governments, municipalities, and industries are increasingly recognizing the importance of effective disinfection methods to ensure water purity. UV disinfection, with its ability to eliminate a wide range of pathogens without the use of chemicals, has gained prominence as a reliable and environmentally friendly solution.

In the municipal and industrial sectors, stringent regulations and standards governing water quality have necessitated the adoption of advanced disinfection technologies. UV disinfection systems offer a robust defense against waterborne diseases, making them a preferred choice for water treatment facilities. Additionally, the escalating global population and urbanization trends have amplified the demand for clean water, driving investments in UV disinfection infrastructure.

Moreover, the growing awareness of the environmental impact of chemical disinfection methods, such as chlorine, has prompted a shift towards UV technology. This transition aligns with the broader sustainability goals of reducing chemical usage and minimizing the release of harmful byproducts into the environment. As a result, the UV Disinfection Equipment Market is poised for sustained growth, with manufacturers innovating to meet the evolving requirements of water treatment applications.

Expanding Healthcare Infrastructure

Another significant driver fueling the UV Disinfection Equipment Market is the expansion

of healthcare infrastructure worldwide. Healthcare facilities, including hospitals, clinics, and laboratories, prioritize sterility to prevent healthcare-associated infections (HAIs) and safeguard patient health. UV disinfection systems have emerged as a powerful tool in this endeavor, as they effectively neutralize bacteria, viruses, and other pathogens in air and on surfaces.

The ongoing global health challenges, such as the COVID-19 pandemic, have accentuated the need for robust disinfection measures within healthcare settings. UV disinfection technologies, capable of rapidly and comprehensively disinfecting patient rooms, operating theaters, and medical equipment, have garnered increased attention. Healthcare providers are incorporating UV disinfection as a supplementary method to manual cleaning and chemical disinfection practices to enhance infection control protocols.

The expansion of healthcare infrastructure, coupled with the stringent regulatory standards governing healthcare-associated infections, is driving the adoption of UV disinfection equipment. As healthcare facilities continue to invest in cutting-edge disinfection solutions to protect patients and staff, the UV Disinfection Equipment Market is poised for growth.

Growing Concerns Over Air Quality and Indoor Health

The third driver reshaping the UV Disinfection Equipment Market is the growing concern over indoor air quality (IAQ) and indoor health. With a significant portion of the global population spending a substantial amount of time indoors, the quality of indoor air has a direct impact on health and well-being. Poor IAQ can lead to respiratory issues, allergies, and the transmission of airborne diseases.

In response to these concerns, the market for UV air disinfection solutions is witnessing a surge in demand. UV-C technology, specifically designed for air disinfection, is being integrated into HVAC (heating, ventilation, and air conditioning) systems, air purifiers, and standalone air disinfection units. These UV systems effectively deactivate microorganisms like bacteria and viruses, mitigating the risk of airborne transmission.

The COVID-19 pandemic has further accelerated the adoption of UV air disinfection systems, with businesses, schools, and healthcare facilities seeking to provide safer indoor environments. The realization that UV technology can help reduce the transmission of respiratory illnesses, including COVID-19, has prompted widespread adoption.

As IAQ becomes a critical consideration in building design and facility management, UV air disinfection solutions are poised to remain a growth driver in the UV Disinfection Equipment Market. Manufacturers are continuously innovating to develop efficient and cost-effective UV systems tailored for various indoor settings, ensuring sustained market expansion.

Key Market Challenges

Cost Constraints and Capital Investment Challenges

One of the primary challenges facing the Ultraviolet (UV) Disinfection Equipment Market is the cost constraints and capital investment challenges encountered by potential buyers, particularly in the municipal and industrial sectors. UV disinfection systems, while effective and environmentally friendly, can represent a significant upfront capital expense. The cost includes not only the purchase of UV equipment but also installation, maintenance, and operational expenses.

Municipalities and water treatment facilities often operate under tight budgets and face pressure to keep utility rates affordable for residents. Similarly, industrial facilities may have competing capital investment priorities. The financial commitment required for UV disinfection infrastructure can pose a barrier to adoption, especially for smaller municipalities and industrial enterprises.

Additionally, UV systems require periodic lamp replacement and routine maintenance to ensure optimal performance. These ongoing operational costs can further strain budgets, and organizations may struggle to allocate resources for long-term maintenance and replacement planning.

Overcoming the cost constraints challenge in the UV Disinfection Equipment Market involves innovative financing models, grants, and incentives from government agencies, as well as public-private partnerships. Manufacturers and suppliers also need to continue efforts to improve the cost-effectiveness of UV systems and provide flexible financing options to make UV disinfection accessible to a broader range of customers.

Maintenance and Compliance with Regulatory Standards

A significant challenge in the UV Disinfection Equipment Market pertains to the maintenance and compliance requirements associated with UV disinfection systems.

UV lamps degrade over time, and their effectiveness diminishes, necessitating regular replacement. Failure to maintain lamp integrity can result in inadequate disinfection performance, posing health risks in water treatment applications.

Furthermore, UV disinfection equipment must adhere to stringent regulatory standards and validation requirements, particularly in industries such as water treatment and healthcare. Compliance with these standards ensures the reliable and consistent performance of UV systems in neutralizing pathogens.

Comprehensive maintenance schedules and practices are crucial to UV system integrity and compliance. However, maintenance can be resource-intensive, requiring skilled technicians, spare parts inventory, and downtime for equipment servicing. The challenge lies in implementing effective maintenance programs that minimize disruptions and ensure the uninterrupted operation of UV disinfection equipment.

In healthcare settings, the validation of UV disinfection systems, especially those used in critical areas like operating rooms and patient rooms, adds another layer of complexity. Ensuring that UV systems meet the rigorous standards for disinfection efficacy and safety can be demanding, requiring thorough testing and documentation.

To address the maintenance and compliance challenges in the UV Disinfection Equipment Market, manufacturers and service providers should offer comprehensive support packages, including routine maintenance, lamp replacement programs, and validation services. Collaboration with regulatory bodies and adherence to industry best practices are also essential for maintaining compliance and user confidence in UV disinfection solutions.

Key Market Trends

Increased Emphasis on Healthcare Infection Control

One prominent trend shaping the Ultraviolet (UV) Disinfection Equipment Market is the heightened emphasis on infection control within the healthcare sector. In the wake of the COVID-19 pandemic, healthcare facilities worldwide have been investing in advanced UV disinfection solutions to enhance patient safety and reduce the risk of healthcare-associated infections (HAIs).

UV-C technology, known for its efficacy in deactivating pathogens, including viruses and bacteria, has become an integral part of infection prevention protocols. UV disinfection

robots and devices are deployed in patient rooms, operating theaters, and high-touch areas to complement traditional cleaning methods. These systems offer a rapid and thorough disinfection process, providing an additional layer of protection for both patients and healthcare workers.

Moreover, UV disinfection technology is gaining traction for air disinfection within healthcare facilities. UV air purifiers and HVAC (heating, ventilation, and air conditioning) systems equipped with UV-C lamps are increasingly adopted to reduce the risk of airborne transmission of infections.

As healthcare institutions continue to prioritize patient safety and infection control, the UV Disinfection Equipment Market is expected to witness sustained growth. Manufacturers are responding with innovations such as UV disinfection robots with autonomous navigation, real-time monitoring, and data analytics capabilities to meet the evolving needs of the healthcare sector.

Expansion into Non-Healthcare Applications

Another notable trend in the UV Disinfection Equipment Market is the expansion of UV disinfection applications beyond healthcare settings. While healthcare remains a significant driver, UV disinfection technology is finding its way into various industries and non-healthcare sectors.

One growing application area is air disinfection in commercial and public spaces. Businesses, educational institutions, and public transportation systems are integrating UV air purification systems to enhance indoor air quality and reduce the risk of respiratory illnesses. The COVID-19 pandemic accelerated the adoption of these solutions, and their usage is expected to remain prevalent in post-pandemic times.

In the food and beverage industry, UV disinfection is employed for surface decontamination and water treatment. UV-C technology helps in the inactivation of pathogens in food processing facilities and ensures the safety of consumables.

Wastewater treatment plants are also embracing UV disinfection as an eco-friendly method for eliminating harmful microorganisms. This trend aligns with the growing emphasis on environmental sustainability and water quality management.

As UV disinfection technology diversifies into non-healthcare applications, the market is poised for expansion. Manufacturers are developing tailored solutions and exploring

new partnerships to address the unique disinfection needs of these industries.

IoT Integration and Smart Disinfection

The third prominent trend in the UV Disinfection Equipment Market is the integration of Internet of Things (IoT) technology and the development of smart UV disinfection systems. These systems leverage connectivity and data analytics to enhance disinfection efficiency and provide real-time monitoring and control.

Smart UV disinfection devices are equipped with sensors and remote monitoring capabilities. They can autonomously assess disinfection needs, monitor UV lamp performance, and collect data on disinfection cycles. This data-driven approach allows for adaptive disinfection, optimizing UV exposure based on real-time conditions and pathogen load.

Additionally, UV disinfection systems are increasingly integrated into building management systems (BMS) and central control platforms, enabling centralized control and monitoring of disinfection processes across large facilities.

The COVID-19 pandemic accelerated the adoption of smart UV disinfection solutions, as they offer the ability to track and report disinfection activities, providing confidence to facility managers and occupants. Post-pandemic, the trend is expected to persist as organizations prioritize hygiene and safety in indoor environments.

Manufacturers in the UV Disinfection Equipment Market are focusing on developing user-friendly interfaces, remote management capabilities, and data analytics features to meet the demand for smart disinfection solutions. As businesses and institutions seek technologically advanced options, smart UV disinfection systems are poised to become a standard in the market..

Segmental Insights

Type of UV Disinfection Equipment Insights

In 2022, the "UV Disinfection Systems" segment emerged as the dominant force in the Ultraviolet (UV) Disinfection Equipment Market and is anticipated to maintain its leadership throughout the forecast period. UV Disinfection Systems encompass a diverse range of solutions, including fixed, mobile, and portable systems, making them highly adaptable to various disinfection applications across industries. These systems

are preferred for their versatility and efficacy in deactivating a wide spectrum of pathogens, making them ideal for water treatment, air disinfection, and surface decontamination.

The UV Disinfection Systems segment's dominance can be attributed to its growing adoption in crucial sectors such as healthcare, municipal water treatment, and industrial applications. In healthcare, UV Disinfection Systems are integral in enhancing infection control measures, especially within patient rooms, operating theaters, and critical care units. The ability to provide rapid and comprehensive disinfection without the use of chemicals is a significant advantage, particularly in settings where patient safety is paramount.

Furthermore, in municipal water treatment facilities, UV Disinfection Systems have gained prominence as a key component in ensuring the safety of drinking water supplies. Stringent water quality regulations and the need for sustainable and chemical-free disinfection solutions have driven their adoption. Additionally, the industrial sector relies on UV Disinfection Systems for wastewater treatment and the decontamination of surfaces and equipment.

The flexibility offered by mobile and portable UV Disinfection Systems, which can be deployed in emergency situations or where infrastructure is limited, further bolsters the segment's dominance. As industries and institutions continue to prioritize effective disinfection practices in the post-pandemic era and beyond, UV Disinfection Systems' adaptability and proven performance are expected to maintain their position at the forefront of the UV Disinfection Equipment Market. Manufacturers are likely to invest in innovations and advancements to cater to evolving customer needs and regulatory requirements, reinforcing the dominance of this segment in the coming years.

Application Insights

In 2022, the "Water Treatment" application segment emerged as the dominant force in the Ultraviolet (UV) Disinfection Equipment Market and is poised to maintain its leadership throughout the forecast period. The water treatment application encompasses a diverse range of sectors, including municipal, industrial, and residential water treatment, and is characterized by its critical role in ensuring safe and potable water supplies. UV disinfection technology has gained significant traction in this segment due to its effectiveness in neutralizing a wide spectrum of waterborne pathogens without the use of chemicals, making it an environmentally friendly and sustainable solution.

In municipal water treatment, stringent water quality regulations and the need for reliable disinfection methods have driven the adoption of UV disinfection systems. These systems are deployed in water treatment plants to safeguard drinking water supplies, ensuring that they meet or exceed regulatory standards. The capacity to provide continuous disinfection without introducing harmful byproducts has positioned UV technology as a preferred choice for municipalities worldwide.

Similarly, in the industrial sector, UV disinfection is applied to treat process water, wastewater, and other industrial effluents. Industries such as pharmaceuticals, food and beverage, and electronics manufacturing rely on UV disinfection to meet stringent quality and environmental standards. UV systems are effective in deactivating microorganisms, preventing contamination, and reducing the environmental footprint of industrial operations.

Furthermore, residential water treatment, including point-of-entry (POE) and point-of-use (POU) systems, has witnessed a surge in demand for UV disinfection solutions. Consumers are increasingly aware of waterborne health risks, and UV systems offer a convenient and dependable means of ensuring safe drinking water at home.

As global concerns regarding water quality and safety persist, the dominance of the "Water Treatment" application segment in the UV Disinfection Equipment Market is expected to endure. Manufacturers are likely to continue innovating and expanding their product portfolios to cater to the evolving needs of municipal, industrial, and residential water treatment applications, reinforcing the significance of UV disinfection technology in ensuring access to clean and safe water supplies.

Regional Insights

In 2022, the Asia-Pacific (APAC) region emerged as the dominant force in the Ultraviolet (UV) Disinfection Equipment Market and is poised to maintain its dominance throughout the forecast period. APAC's leadership in the market can be attributed to several key factors. Firstly, the region's high population density has intensified the demand for clean and safe water supplies, necessitating effective water treatment solutions. Additionally, rapid industrialization in countries like China and India has led to increased wastewater generation, driving the adoption of UV disinfection technology for industrial effluent treatment. Furthermore, the growing awareness of environmental sustainability and the need to reduce chemical usage in water treatment have boosted the preference for UV disinfection systems in the region. The healthcare sector in APAC

has also witnessed significant growth, with UV disinfection playing a pivotal role in infection control measures. As APAC continues to experience urbanization, industrial expansion, and heightened awareness of water and air quality, the UV Disinfection Equipment Market in the region is expected to thrive. Manufacturers are likely to focus on tailored solutions and partnerships with local stakeholders to address the specific needs of the diverse APAC market, further solidifying the region's dominance in the UV disinfection equipment sector.

Key Market Players

Xylem Inc

Trojan Technologies

Halma plc

Kuraray Co., Ltd.

Atlantic Ultraviolet Corporation

Evoqua Water Technologies LLC

Xenex Disinfection Services, LLC

Advanced UV, Inc

American Ultraviolet

Atlantium Technologies Ltd

Report Scope:

In this report, the Global Ultraviolet(UV) Disinfection Equipment Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Ultraviolet(UV) Disinfection Equipment Market, By Type of UV Disinfection Equipment:

UV Lamps (Low-Pressure, Medium-Pressure, High-Intensity)

UV LEDs (Light Emitting Diodes)

UV Disinfection Systems (Fixed, Mobile, Portable)

Ultraviolet(UV) Disinfection Equipment Market, By Application:

Water Treatment (Municipal, Industrial, Residential)

Air Disinfection (HVAC Systems, Air Purifiers)

Surface Disinfection (Healthcare, Food Processing, Laboratories)

Wastewater Treatment (Municipal, Industrial)

Aquaculture

Healthcare Facilities (Hospitals, Clinics, Laboratories)

Residential

Ultraviolet(UV) Disinfection Equipment Market, By End-User Industry:

Healthcare

Municipal and Industrial Water Treatment

Food and Beverage

Pharmaceuticals

Aquaculture

Residential

Others

Ultraviolet(UV) Disinfection Equipment 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

Kuwait

Turkey

Egypt

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Ultraviolet(UV) Disinfection Equipment Market.

Available Customizations:

Global Ultraviolet(UV) Disinfection Equipment Market report with the given market data, Tech Sci 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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