

Vertex 222



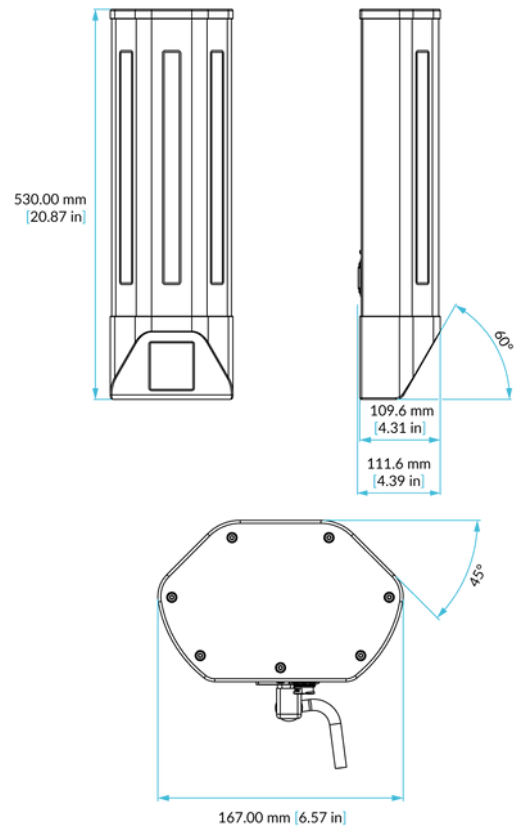
Application

The Vertex 222 is a powerful and durable Far-UVC disinfection lamp developed for continuous use in challenging and contamination-prone environments. With its rugged construction and proven 222 nm technology, Vertex 222 delivers effective microbial reduction on surfaces and in the air – helping maintain high hygiene standards in critical areas such as industrial facilities, logistics hubs, or technical installations.

Engineered for longevity, the system is built to operate reliably for at least 17,500 hours, providing long-term protection without compromising on safety or efficiency.

UV Medico's patented active dehumidification system eliminates internal humidity and corrosive particles through a solid-state electrolytic process. This ensures long-lasting internal protection against corrosion, even in environments with fluctuating temperature or moisture levels.

The Vertex 222 is rated IP54, providing robust protection against dust ingress and water spray—suitable for operational environments where cleanliness, reliability, and durability are essential.



General product specifications

Light source	Krypton Chloride Excimer Lamp
Wavelength	222 nm
Output	460 mW (Typical)
Input voltage	90-264 V AC
Mode (programmable)	Continuous / duty cycle / motion activated
Max power consumption	120 W
Weight	4.5 kg (9.92 lbs)
Dimensions	167 x 136.5 x 530 mm (6.57 x 5.37 x 20.86 in)
Power lead (PVC)	3 x 0.75 mm ² (18 AWG)
Operating temperature	0° to + 40° C (32° to 104° F)
Ambient humidity	5-90% RH Non condensing
Materials	Aluminum, quartz glass

Vertex 222

Key Features and Benefits

The Vertex 222's flexible installation options maximize room coverage, allowing it to be used independently in corners or in conjunction with other UV222 solutions from UV Medico. Programmable modes offer customizable operation, including continuous, duty cycle, and motion sensor settings, enabling facilities to tailor the device's function to their specific needs. Additionally, its robust construction, with an IP65 rating, ensures durability while minimizing power consumption, making it a cost-effective solution for ongoing disinfection.

Advanced Control Systems

Equipped with programmable operation modes, the Vertex 222 allows users to customize its functionality based on their specific environment and usage patterns. The motion sensor mode provides an intelligent approach to disinfection, activating the device only when necessary, which conserves energy while maintaining high standards of hygiene. This flexibility enhances operational efficiency and ensures that disinfection is optimized at all times.



Facts about UV222

Safety	UV222 is 100% safe for use in the presence of humans and animals, and fully complies with international UV radiation standards.
Efficacy	Far-UVC light at 222 nm is a proven and effective decontamination method. Research from around the world has demonstrated its germicidal effectiveness.
Knowledge	UV222 has been developed and engineered in cooperation with several universities. It is thoroughly tested and well-documented. Note: UV222TM installations must be performed by authorized installers only.
Ecological	UV222 is mercury-free. It offers decontamination without the use of chemicals or leaving any residue.
IOT	Built-in Internet of Things (IoT) technology for advanced connectivity and monitoring.

Vertex 222

Installation and Integration

Designed for straightforward installation, the Vertex 222 can be quickly positioned in corners of rooms to maximize coverage. Its versatility allows for both fixed and portable configurations, making it easy to relocate as needed. This flexibility enables facilities to adapt their sanitation strategies to changing demands without significant downtime or disruption.

Maintenance & Serviceability

With a durable design and minimal maintenance requirements, the Vertex 222 ensures continuous operation with little intervention. Regular performance assessments can be performed easily, allowing facilities to keep track of its efficacy and ensure that it continues to meet hygiene standards. The device's robust construction further supports its longevity and reliability in demanding environments.

Environmental Impact

The Vertex 222 is engineered with sustainability in mind, utilizing energy-efficient technology that not only reduces operational costs but also lowers the overall carbon footprint. By eliminating the need for chemical disinfectants, it contributes to a healthier environment, aligning with eco-friendly practices and supporting the commitment to sustainability in healthcare and public spaces.

Regulatory Compliance

The Vertex 222 adheres to stringent health and safety regulations, ensuring it is compliant with international standards for safe use in occupied spaces. Its design prioritizes user safety while maintaining effective disinfection, making it a reliable choice for institutions that must uphold high hygiene standards.

The Vertex 222 complies with the following regulatory standards:

International Standards

ISO 15858	UV-C Devices – Safety information – permissible human exposure.
IEC 62471	Photobiological safety of lamps and lamp systems.
IEC PAS 63313 ED1	Position statement on germicidal UV-C irradiation - UV-C safety guidelines (see Global Lighting Association).

International Guidelines

ACGIH® (American Conference of Governmental Hygienists)	2021 and 2022 TLV (Threshold Limit Values) & BEI (Biological Exposure Indices) for chemical substances and physical agents.
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