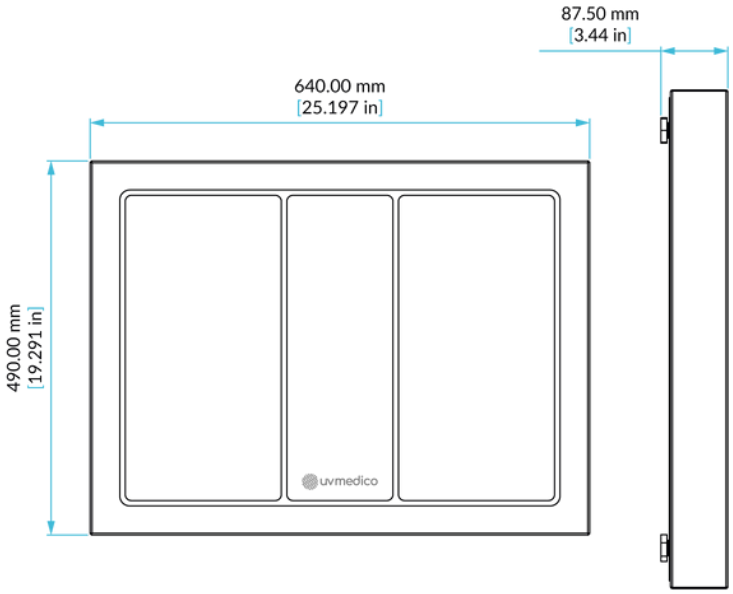
UV222 Step-On

Application

The UV222 Step-On is specifically designed for cleanroom environments where maintaining stringent hygiene standards is crucial. Cleanroom personnel are trained to minimize their bioburden by following strict protocols and wearing specialized protective equipment, including cleanroom shoes. However, these shoes can still harbor contaminants when personnel transition between different areas. The UV222 Step-On addresses this issue by effectively decontaminating footwear both on entry and exit, significantly reducing the risk of cross-contamination. This solution is indispensable in industries where contamination can severely compromise product quality, such as pharmaceuticals, biotechnology, and electronics manufacturing.



UV Medico's patented active dehumidification process eliminates humidity and corrosive molecules, effectively preventing internal corrosion and ensuring long-term durability. The integrated active dehumidifier utilizes a solid-state electrolytic process, while the device itself offers IP66 protection against dust and powerful water jets.

General product specifications

Light source	Krypton Chloride Excimer Lamp
Wavelength	222 nm
Output	620 mW (Typical)
Input voltage	100-240 V AC, 50/60 Hz
Mode (programmable)	External activation / Auto-sensing
Max power consumption	120 W
Weight	20 kg (44.1 lbs)
Dimensions	640 x 490 x 87.5 mm (25.2 x 19.3 x 3.44 in)
Power lead (PVC)	3 x 0.75 mm² / 95 cm (18 AWG / 3.11 ft)
Operating temperature	0° to + 50° C (32° to 122° F)
Ambient humidity	5-90% RH
Materials	316 stainless steel, quartz glas*

*Chemically-inert, non-porous, transparent quartz glass with high-temperature resistance.

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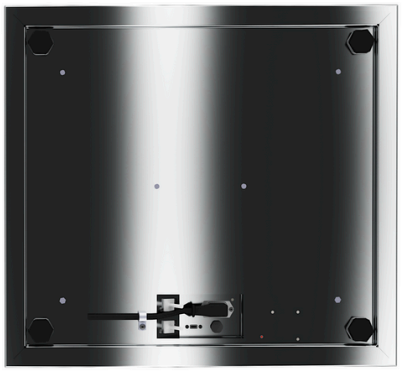
Key Features and Benefits

This touchless, chemical-free decontamination solution offers numerous benefits, including rapid disinfecting capabilities that operate in under 15 seconds. Utilizing advanced Far-UVC light technology, the UV222 Step-On targets and neutralizes a wide range of pathogens without leaving any chemical residues, ensuring a cleaner and safer environment. Its sleek design allows for seamless integration into cleanroom flooring, promoting compliance with strict cleanliness protocols while enhancing user convenience. Moreover, its touchless activation mechanism minimizes user interaction, thereby further reducing the risk of contamination during shoe disinfection.

Advanced Control Systems

The UV222 Step-On is equipped with intuitive control systems that allow for easy operation. Users can activate the unit simply by stepping on it, minimizing the need for direct contact. Furthermore, the programmable settings offer flexibility, enabling users to customize the operation based on specific needs and preferences, ensuring optimal performance at all times. These advanced controls facilitate a smooth workflow, making the decontamination process efficient and user-friendly.



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.

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Installation and Integration
The UV222 Step-On is designed for straightforward installation as part of a cleanroom's infrastructure. Its integration into flooring allows for a smooth transition between areas, promoting a safe and efficient workflow. The unit can be customized to meet specific operational requirements, ensuring it fits seamlessly into existing cleanroom designs. Installation typically involves minimal disruption to operations, allowing facilities to maintain their production schedules.

Maintenance & Serviceability
Maintaining the UV222 Step-On is straightforward, with accessible surfaces designed for easy cleaning. The unit is constructed from durable materials, ensuring it can withstand the rigors of cleanroom environments while minimizing downtime. Regular maintenance schedules can be established to ensure that the system functions at optimal levels. Additionally, the long lifespan of the Krypton chloride excimer lamp reduces the need for frequent replacements, further enhancing the device's cost-effectiveness.

Environmental Impact
The UV222 Step-On is designed with environmental sustainability in mind. Utilizing Far-UVC technology not only reduces reliance on chemical disinfectants but also minimizes waste generated by disposable cleaning materials. This commitment to environmentally friendly practices contributes to the overall sustainability goals of healthcare and industrial settings. By adopting such advanced technology, facilities can achieve higher hygiene standards while also promoting eco-friendly practices.

Regulatory Compliance
This device is designed to meet the stringent regulatory requirements governing cleanroom environments. By adhering to industry standards for cleanliness and safety, the UV222 Step-On can be seamlessly integrated into existing protocols without compromising the operational integrity of cleanrooms. Compliance with these regulations not only enhances the safety of cleanroom personnel but also ensures that the products manufactured within these controlled environments meet the highest quality standards.

The UV222 Step-On 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.

V25.01