

uvmedico

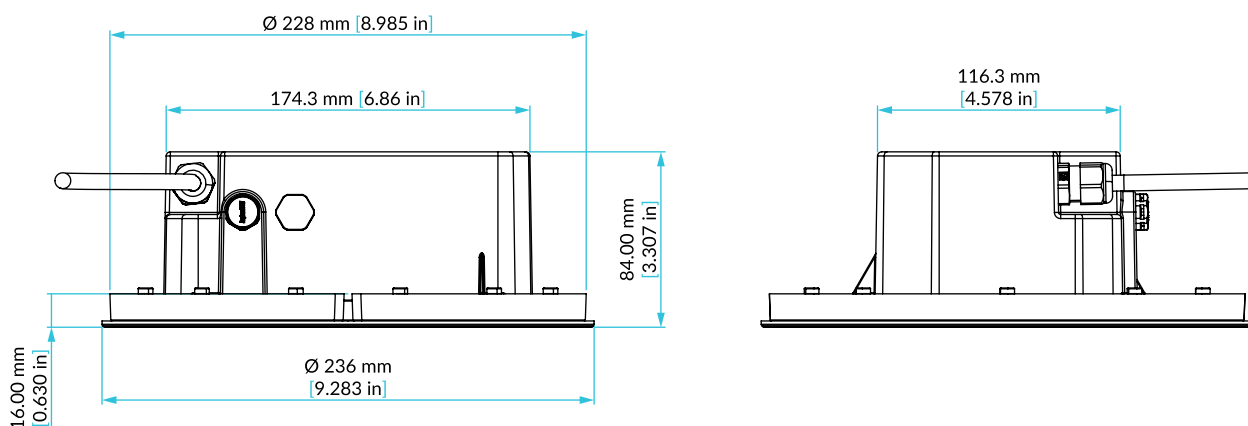
UV222 Cleanroom Downlight



Application

The UV222 Cleanroom Downlight is expertly designed to minimize contamination risks in controlled environments. The UV222 Cleanroom Downlights are ideal for cleanrooms that require the highest hygiene standards, making them essential in industries such as pharmaceuticals, biotechnology, and semiconductor manufacturing. By providing effective decontamination in key areas, this cleanroom downlight helps maintain the integrity of sensitive operations and products, ensuring that contamination does not compromise quality or safety.

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 IP65 front protection against dust and powerful water jets.



General product specifications

Light source	Krypton Chloride Excimer Lamp
Wavelength	222 nm
60° output	115 mW (Typical)
100° output	70 mW (Typical)
Input voltage	100-240 V AC, 50/60 Hz
Mode (programmable)	Continuous / duty cycle / motion activated
Max power consumption	20 W
Weight	1.6 kg (3.5 lbs)
Dimensions	Ø 236 mm x 84 mm (Ø 9.29 in x 3.31 in)
Power lead (PVC)	3 x 0.75 mm ² / 5 m (18 AWG / 16.4 ft)
Operating temperature	0° to + 50° C (32° to 122° F)
Ambient humidity	5-90% RH Non condensing
Materials	Aluminum, quartz glass*

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

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Key Features and Benefits

Engineered specifically for cleanroom settings, the UV222 Cleanroom Downlight meets stringent industry standards for installation and performance. Its sleek design allows for easy integration into various ceiling types, while its superior decontamination capabilities help reduce the microbial load in the environment. The lamp features a primary seal that can be inspected and replaced every five years, enhancing its long-term reliability. The use of FDA-approved silicone for bonding ensures that the installation is not only secure but also safe for cleanroom environments. This cleanroom downlight is perfect for maintaining a sterile atmosphere, thus contributing significantly to overall operational safety.



Advanced Control Systems

The UV222 Cleanroom Downlight comes equipped with advanced control systems that allow for versatile operation modes. Users can select from continuous illumination, duty cycles, or motion-activated settings to suit their specific requirements. This flexibility in operation enhances its usability in various applications while optimizing energy consumption and efficiency.



Facts about UV222

Safety	UV222 is safe for use in the presence of humans and animals, and fully complies with international safety standards and guidelines.
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: UV222 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.

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Installation and Integration

The UV222 Cleanroom Downlight is designed for easy installation, seamlessly fitting into a variety of ceiling types within cleanroom environments. The front module's orientation towards the cleanroom area allows for effective decontamination, while the ability to access the lamp for maintenance through the back module simplifies ongoing care. This straightforward installation process ensures minimal disruption to operations, allowing facilities to maintain productivity.

Maintenance & Serviceability

With its durable design and accessible components, the UV222 Cleanroom Downlight offers straightforward maintenance. The lamp's primary seal can be inspected and replaced every five years, ensuring long-term reliability. The powder-coated finish and sealed quartz glass contribute to its robustness, making it suitable for the rigorous demands of cleanroom applications. Regular maintenance checks can be scheduled to ensure optimal performance throughout its lifespan.

Environmental Impact

The UV222 Cleanroom Downlight is designed with environmental sustainability in mind. By utilizing Far-UVC technology, it reduces reliance on chemical disinfectants, thus minimizing waste and environmental impact. This eco-friendly approach not only enhances operational efficiency but also aligns with the broader sustainability goals of the healthcare and manufacturing sectors.

Regulatory Compliance

The UV222 Cleanroom Downlight adheres to strict regulatory standards for cleanroom environments, ensuring that it meets the necessary safety and reliability requirements. By integrating the UV222 Cleanroom Downlight into cleanroom protocols, organizations can enhance their compliance with industry regulations and promote a safer operational environment.

The UV222 Cleanroom Downlight 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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