

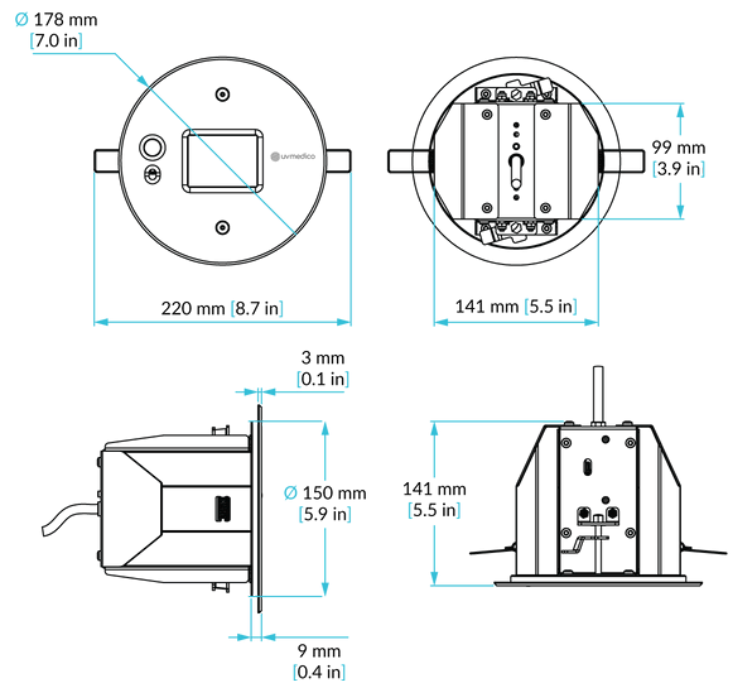
UV222 Downlight



Application

The UV222 Downlight is especially beneficial in high-traffic areas where vulnerable populations, such as children and young adults, gather. In light of the COVID-19 pandemic, there is an increased demand for reliable disinfection solutions that can function continuously in occupied settings. This downlight provides substantial protection against aerosolized pathogens in classrooms, offices, and hallways, helping to significantly reduce the risk of infections. By ensuring a safer environment, it supports the health and well-being of individuals, allowing educational institutions and workplaces to operate more confidently and efficiently.

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.



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 178 mm x 129 mm (Ø 7 in x 5 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

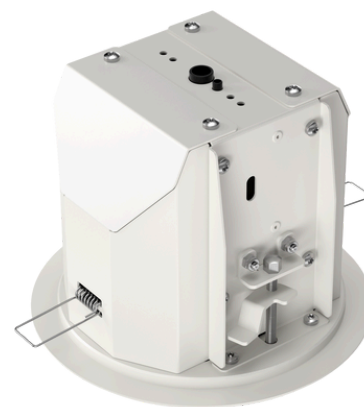
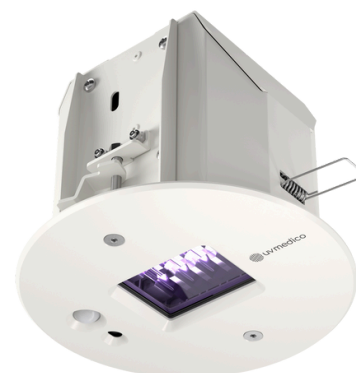
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Key Features and Benefits

Designed with advanced Far-UVC technology, the UV222 Downlight operates at a peak emission wavelength of 222 nm, which is safe for continuous use in occupied spaces. This technology has gained recognition for its effectiveness against a broad spectrum of pathogens, including viruses, bacteria, and mold. Available in both 60° and 100° beam angles, each lamp is rigorously tested to guarantee optimal light distribution and efficacy. The integrated optical band-pass filter ensures that harmful wavelengths are filtered out, providing effective disinfection while safeguarding human health. Moreover, its energy-efficient design reduces operational costs, making it an economically viable choice for facilities aiming to enhance their hygiene protocols.

Advanced Control Systems

The UV222 Downlight can be easily integrated into existing building management systems, allowing for automated control and real-time monitoring. This feature enables tailored disinfection schedules based on occupancy levels and usage patterns, enhancing operational efficiency and ensuring consistent protection. Facilities can adjust the intensity and duration of disinfection cycles to suit specific needs, further optimizing the UV222 Downlight's performance. Additionally, the ability to receive alerts and reports on system status contributes to a proactive approach to infection control.



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 Downlight is designed for easy installation in a variety of settings. Its sleek design allows for seamless integration into ceilings or existing lighting fixtures, minimizing disruption during installation and ensuring that healthcare facilities can quickly implement enhanced disinfection measures without significant downtime. The installation process is straightforward, requiring minimal technical expertise, which allows for rapid deployment and immediate benefits in terms of cleanliness and safety.

Maintenance & Serviceability

The UV222 Downlight is built for durability and requires minimal maintenance due to its long-lasting components. Regular performance checks can be easily conducted to ensure continuous effectiveness, allowing healthcare facilities to maintain high standards of hygiene without significant interruptions. In addition, the design allows for quick replacement of parts when needed, ensuring that the system remains operational with little downtime.

Environmental Impact

The UV222 Downlight is environmentally friendly, utilizing energy-efficient technology that reduces operational costs and carbon footprint. The absence of harmful chemicals or residues makes it a sustainable choice for disinfection, aligning with modern eco-friendly practices. By choosing the UV222 Downlight, facilities can enhance their disinfection protocols while simultaneously supporting sustainability initiatives.

Regulatory Compliance

The UV222 Downlight complies with international health and safety standards, ensuring it meets the necessary regulations for safe use in various environments. Its design adheres to guidelines for photobiological safety, making it suitable for use in spaces with human occupancy. This compliance not only reassures facility managers but also ensures that the UV222 Downlight is a trustworthy solution for infection control in sensitive environments such as hospitals, clinics, and educational institutions.

The UV222 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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