

uvmedico

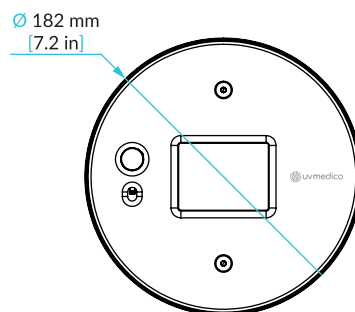
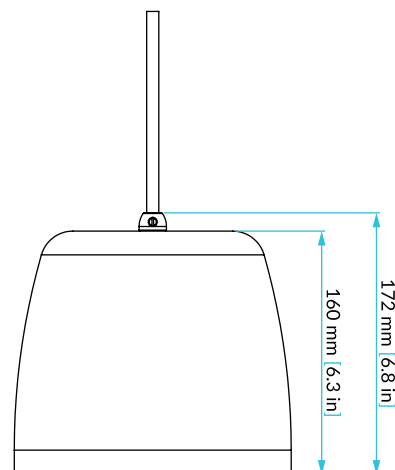
UV222 Pendant



Application

The hospitality sector faces unique challenges in preventing the spread of viruses and bacteria, especially in closed spaces where customers frequently gather. The UV222 Pendant addresses these challenges by targeting both air and surface disinfection. With the potential for pathogens to be transmitted by both airborne and surface contact, this lamp serves as a critical tool for protecting customers and employees alike. Its elegant design allows for easy integration into any space, ensuring that aesthetic appeal is not compromised while delivering effective disinfection.

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*

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

UV222 Pendant

Key Features and Benefits

Combining efficiency with elegance, the UV222 Pendant features a sleek design that fits seamlessly into various environments. Its adjustable height makes it adaptable to different ceiling heights, optimizing its performance. With the ability to operate in continuous, duty cycle, or motion-activated modes, this lamp provides flexibility to suit specific needs. By effectively targeting the disinfection of surfaces and air, it significantly reduces the risk of cross-contamination in high-traffic areas, promoting a safer environment for all.

Advanced Control Systems

With programmable modes, including motion activation, the UV222 Pendant can adapt to various usage scenarios. This intelligent functionality helps conserve energy while maintaining optimal disinfection performance, ensuring that the lamp operates only when necessary and enhancing its cost-effectiveness.



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.
IOT	Built-in Internet of Things (IoT) technology for advanced connectivity and monitoring.

UV222 Pendant

Photometrics and Efficacy of the 60° Model

The UV222 Pendant serves as a vital tool for infection control and prevention. Its effectiveness in inactivating harmful pathogens makes it suitable for various applications.

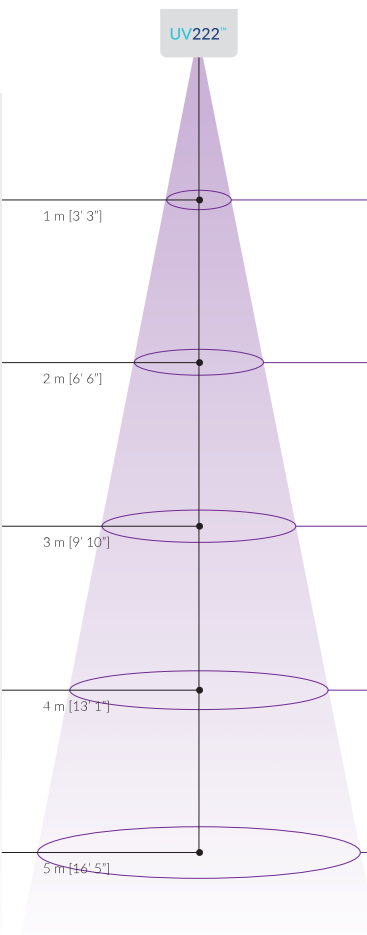
The UV222 Pendant employs Far-UVC technology, which has demonstrated efficacy in inactivating a wide range of pathogens, including those responsible for zoonotic diseases. With a peak emission wavelength of 222 nm, this system effectively targets microorganisms while remaining safe for use around living animals.

Our UV222 solutions come in two distinct versions, each tailored to meet different needs. The 60° model delivers a higher output with a concentrated beam, making it ideal for rapid and targeted disinfection in areas where time efficiency is crucial, such as hospital rooms, laboratories, or high-traffic public spaces.

Exposure time to reduce 90% of SARS-CoV2

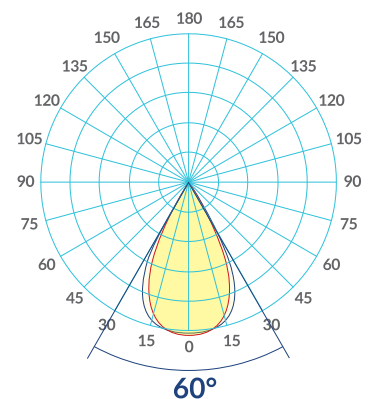
Surfaces Surface spanned by beam angle
43 sec. at centre 1 min. 27 sec. for 1.05 m ² 11.26 ft ²
2 min. 54 sec. at centre 5 min. 48 sec. for 4.19 m ² 45.09 ft ²
6 min. 31 sec. at centre 13 min. 3 sec. for 9.42 m ² 101.39 ft ²
11 min. 36 sec. at centre 23 min. 11 sec. for 16.75 m ² 180.29 ft ²
18 min. 7 sec. at centre 36 min. 14 sec. for 26.18 m ² 281.80 ft ²

Aerosols
29 sec.
1 min. 56 sec.
4 min. 21 sec.
7 min. 44 sec.
12 min. 5 sec.



60° photometrics

Surfaces	Irradiance at centre
Diameter: 1.15 m Surface: 1.05 m ² 3' 9" 11.26 ft ²	13.8 μW/cm ²
Diameter: 2.30 m Surface: 4.19 m ² 7' 6" 45.09 ft ²	3.42 μW/cm ²
Diameter: 3.46 m Surface: 9.42 m ² 11' 4" 101.39 ft ²	1.52 μW/cm ²
Diameter: 4.62 m Surface: 16.75 m ² 15' 2" 180.29 ft ²	0.86 μW/cm ²
Diameter: 5.77 m Surface: 26.18 m ² 18' 11" 281.80 ft ²	0.55 μW/cm ²



Peak emission wavelength: 222 nm

Output power in range (200-230 nm): 115 mW

Dose needed (222 nm, COVID-19) 90% inactivation for aerosols: 390 μJ/cm²

Dose needed (222 nm, COVID-19) 90% inactivation for surfaces: 600 μJ/cm²

UV222 Pendant

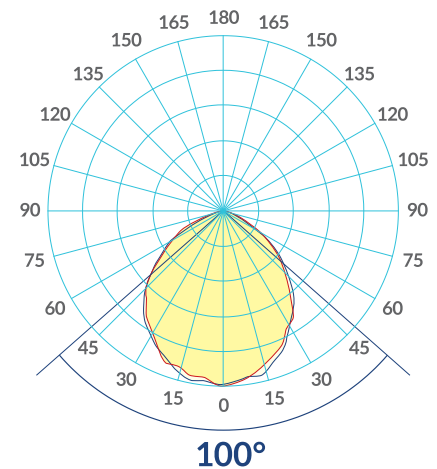
Photometrics and Efficacy of the 100° Model

Continuous exposure during operation not only enhances biosecurity but also contributes to a healthier environment for both animals and workers.

This feature is crucial in industries such as livestock production, where the risk of disease transmission is a constant concern.

The 100° model, with its wider beam and lower intensity, is designed for extended operation while staying well within safe exposure limits. This version is particularly suited for larger or frequently occupied areas.

Whether you need quick, effective action or long-term, comprehensive coverage, UV222 offers the flexibility to adapt to your specific disinfection needs.



Exposure time to reduce
90% of SARS-CoV2

Surfaces Surface spanned by beam angle
47 sec. at centre 1 min. 34 sec. for 1.12 m ² 12.0 ft ²
3 min. 8 sec. at centre 6 min. 15 sec. for 4.46 m ² 48.02 ft ²
7 min. 2 sec. at centre 14 min. 4 sec. for 10.03 m ² 108.06 ft ²
12 min. 30 sec. at centre 25 min. for 17.85 m ² 192.1 ft ²

Aerosols

30 sec.
2 min. 2 sec.
4 min. 34 sec.
8 min. 8 sec.

UV222™

100° photometrics

Surfaces	Irradiance at centre
Diameter: 1.19 m Surface: 1.12 m ² 3' 9" 12.0 ft ²	12.8 µW/cm ²
Diameter: 2.4 m Surface: 4.46 m ² 7' 8" 48.02 ft ²	3.20 µW/cm ²
Diameter: 3.57 m Surface: 10.03 m ² 11' 7" 108.06 ft ²	1.42 µW/cm ²
Diameter: 4.77 m Surface: 17.85 m ² 15' 6" 192.1 ft ²	0.80 µW/cm ²

Peak emission wavelength: 222 nm

Output power in range (200-230 nm): 70 mW

Dose needed (222 nm, COVID-19) 90% inactivation for aerosols: 390 µJ/cm²

Dose needed (222 nm, COVID-19) 90% inactivation for surfaces: 600 µJ/cm²

UV222 Pendant

Installation and Integration

The installation of the UV222 Pendant is straightforward, with adjustable height options allowing it to be tailored to fit any room. Its elegant design and versatility make it easy to integrate into existing environments, whether in hotels, restaurants, or other hospitality venues.

Maintenance & Serviceability

Designed for low maintenance, the UV222 Pendant features durable construction that supports continuous operation. Regular checks can be easily performed to ensure optimal performance, making it a practical choice for facilities that require reliable sanitation solutions.

Environmental Impact

The UV222 Pendant utilizes energy-efficient technology, contributing to lower operational costs and reducing its environmental footprint. By providing effective disinfection without the need for chemical cleaners, it promotes a safer, healthier environment while supporting eco-friendly practices.

Regulatory Compliance

The UV222 Pendant complies with international health and safety standards, ensuring its safe use in occupied spaces. This adherence to regulations provides assurance to users that they are employing a device designed with safety as a priority while effectively combating pathogens.

The UV222 Pendant 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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