

### Application

The UV222 Industrial is an advanced disinfecting lamp designed for demanding industrial environments. Its robust construction and effective Far-UVC technology make it suitable for a variety of applications, including food processing, livestock production, and other settings that require stringent biosecurity measures. By providing continuous disinfection in areas prone to contamination, such as production facilities, barns, and stables, the UV222 Industrial helps to protect both products and living animals, ensuring a safer and more hygienic operational environment.



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	3 kg (6.6 lbs)		
Dimensions	300 x 168 x 113 mm (11.8 x 6.6 x 4.4 in)		
Power lead (PVC)	3 x 0.75 mm² / 10 m (18 AWG / 32.8 ft)		
Operating temperature	0° to + 50° C (32° to 122° F)		
Ambient humidity	5-90% RH Non condensing		
Materials	Aluminum 6086-T6, quartz glass1		
Ingress proctection	IP66		
IK rating	IK06		

#### General product specifications



### **Key Features and Benefits**

The UV222 Industrial lamp is specifically engineered to withstand the rigors of industrial use, featuring an IP66 rating that ensures it is dust-tight and protected against pressurized water. This resilience makes it ideal for settings that require intensive cleaning, allowing for seamless operation in environments where hygiene is paramount. The use of Far-UVC light allows for effective disinfection without harming living organisms, making it particularly beneficial for applications in livestock production, where maintaining animal health is critical. Continuous operation ensures a consistently sanitized environment, reducing the risk of disease outbreaks and enhancing overall biosecurity.

### **Advanced Control Systems**

Equipped with advanced control systems, the UV222 Industrial allows for flexible operation modes, including continuous use, duty cycle, and motion activation. This versatility ensures that the lamp can be utilized effectively in various scenarios, adapting to the specific needs of different industrial applications. Operators can easily control the system, optimizing its performance based on operational demands.





### 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 be 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.	



### Photometrics and Efficacy of the 60° Model

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

The UV222 Industrial 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 people and 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.



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



### 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 and buildings, 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.





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



### Installation and Integration

Installation of the UV222 Industrial is designed to be straightforward, enabling rapid deployment in various industrial settings. Its robust construction and compact design facilitate seamless integration into existing infrastructure, ensuring minimal disruption during setup. This ease of installation allows organizations to quickly enhance their disinfection processes and improve overall operational hygiene.

#### **Maintenance & Serviceability**

The UV222 Industrial is built for durability, requiring minimal maintenance to ensure optimal performance. Regular inspections can be easily conducted due to its accessible design, allowing for quick checks and servicing. This commitment to serviceability ensures that the device remains effective over time, contributing to long-term reliability in demanding industrial environments.

#### **Environmental Impact**

Utilizing Far-UVC technology, the UV222 Industrial significantly reduces the reliance on chemical disinfectants, which can have adverse environmental effects. By promoting a cleaner and safer working environment through physical disinfection methods, the UV222 Industrial aligns with sustainable practices within the industrial sector, minimizing waste and promoting eco-friendly operations.

#### **Regulatory Compliance**

The UV222 Industrial adheres to stringent industry standards and regulations, ensuring that it is suitable for use in food processing and other sensitive environments. Its design takes into account the necessary safety measures for protecting both workers and products, aligning with best practices in industrial hygiene. By integrating this advanced disinfection solution, organizations can enhance their compliance with regulatory requirements, fostering a safer workplace.

The UV222 Industrial 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).			

2021 and 2022 TLV (Threshold Limit Values) & BEI (Biological Exposure

Indices) for chemical substances and physical agents.

### **International Guidelines**

Governmental Hygienists)

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