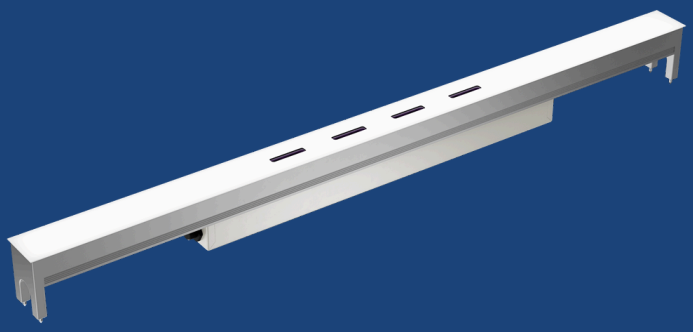
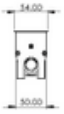
UV222 Linear





General product specifications

Light source	Krypton Chloride Excimer Lamp
Wavelength	222 nm
60° output	115 mW (Typical)
Input voltage	95-264 V AC
Mode (programmable)	Continuous / duty cycle / motion activated
Max power consumption	65 W
Weight	2.3 kg (5.07 lbs)
Dimensions (can be customized)	
930mm length	930 x 50 x 75 (36,61 x 1.96 x 2.95 in)
1120mm length	1120 x 50 x 75 (44.09 x 1.96 x 2.95 in)
Power lead (PVC)	3 x 2,5 mm² + 2 twisted pairs
Operating temperature	0° to + 40° C (32° to 104° F)
Ambient humidity	5-90% RH Non condensing
Materials	Aluminium, quartz glass, polycarbonate

LED light specifications

Light source	LED, flicker-free
Output	5400 lm
Beam angle	120°
Color rendering index (CRI)	>90
Effiency	138 Lm/W
Lumen maintenance (L70)	50.000 hours
CCT	3000 K / 3500 K / 4000 K / 5000 K / 5700 K / 6500 K

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Key Features and Benefits

The UV222 Linear offers a range of features that makes it a valuable addition to any healthcare facility. Its continuous disinfection capabilities ensure that pathogens are constantly being neutralized, even in areas where patients and staff are present. The dual-purpose design provides not only high-level decontamination but also excellent illumination with a colour rendering index (CRI) of >90, producing bright, true-to-life colours ideal for surgical precision. The use of mercury-free Krypton-Chloride (KrCl) lamps aligns with modern environmental standards, offering a sustainable and safe alternative to traditional mercury-based UV solutions. Moreover, the flicker-free lighting reduces eye strain for medical personnel, enhancing productivity during long shifts.

Advanced Control Systems

The UV222 Linear offers advanced control features that allow for customization based on specific disinfection needs. The system supports continuous, duty cycle, and motion-activated modes, giving healthcare facilities flexibility in how they use the device. The unit can also be integrated with existing building automation systems, providing centralized control over multiple units and ensuring optimal performance with real-time status updates. This integration allows for more efficient management of energy usage, disinfection schedules, and system diagnostics.

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.

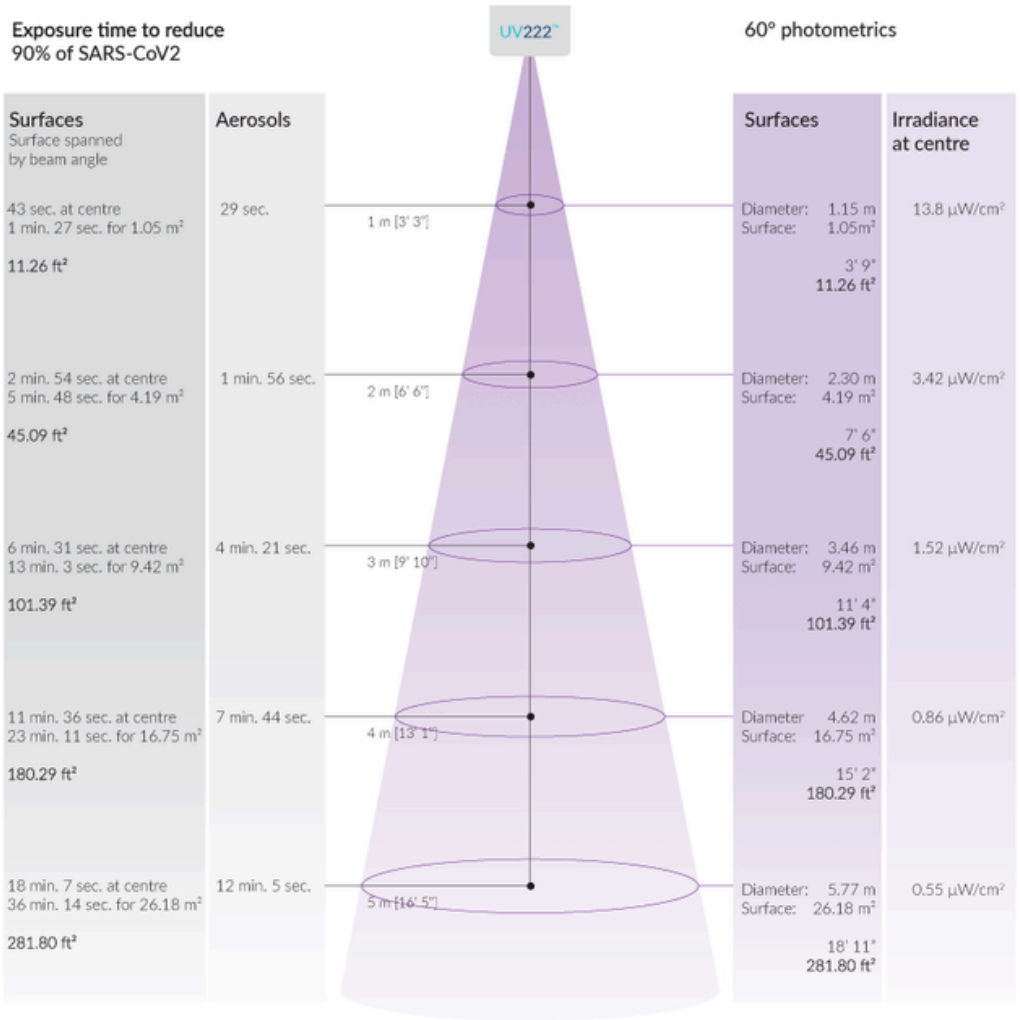
UV222 Linear

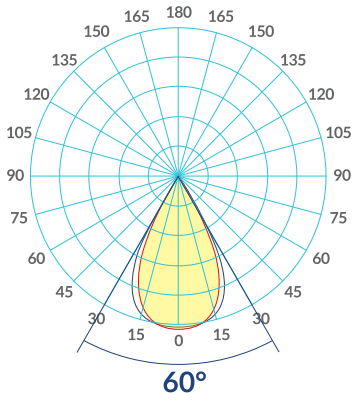
Photometrics and Efficacy of the 60° Model

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

The UV222 Linear 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 Linear 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

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Installation and Integration
The UV222 Linear is designed for simple and flexible installation. Available in ceiling-mounted, wall-mounted, or portable configurations, it can be installed with minimal disruption to ongoing medical activities. It integrates easily with existing hospital systems, such as Laminar Air Flow (LAF) setups, allowing for seamless addition to operating theatres or other critical areas. Its compact design and plug-and-play features ensure rapid installation, minimizing downtime in high-traffic, high-risk environments.

Maintenance & Serviceability
The UV222 Linear is engineered for low-maintenance operation, featuring easily replaceable UV-C lamps and a durable, dust-resistant housing. The system is equipped with self-diagnostic capabilities that alert facility managers when maintenance is needed, ensuring continuous operation with minimal interruptions. Extended warranty options and service contracts are available, offering routine maintenance checks and priority support to ensure the longevity and effectiveness of the device.

Environmental Impact
Using mercury-free KrCl lamps, the UV222 Linear is environmentally friendly and safe for both human health and the ecosystem. The unit consumes low power, reducing the environmental impact and operational costs of healthcare facilities. The absence of harmful chemicals or residues makes the device ideal for sustainable disinfection practices, promoting a cleaner, greener approach to sterilization.

Regulatory Compliance
The UV222 Linear meets stringent regulatory standards for health and safety. It is CE certified, RoHS compliant, and meets ISO 9001 standards. The unit is also compliant with IEC 62471:2008, ensuring it adheres to international guidelines for safe human exposure to UV light. U.S.-based models can be customized to meet FDA Class I requirements for healthcare use, making the system versatile and adaptable to various regulatory environments worldwide.

The UV222 Linear 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.

V: 25.01