

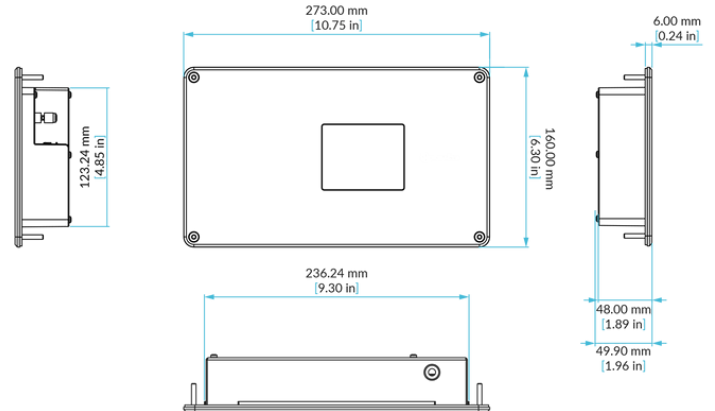
# UV222 Ambulance



## Application

The UV222 Ambulance is an advanced disinfecting lamp designed for demanding ambulance 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 Ambulance helps to protect both products and living animals, ensuring a safer and more hygienic operational environment. The lamp is designed to deliver a minimum lifetime of **17,500** hours, ensuring long-lasting performance and reliability.

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 IP66 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         | 9–28 V DC  |
| Mode (programmable)   | Continuous / duty cycle / motion activated       |
| Max power consumption | 20 W   |
| Weight                | 1 kg (2.2 lbs)                                   |
| Dimensions            | 273 x 160 x 48 mm (10.75 x 6.3 x 1.89 in)        |
| Power lead (PVC)      | 3 x 0.75 mm <sup>2</sup> / 3 m (18 AWG / 9.8 ft) |
| Operating temperature | 0° to + 50° C (32° to 122° F)                    |
| Ambient humidity      | 5-90% RH Non condensing                          |
| Materials             | Aluminum, quartz glass1                          |

# UV222 Ambulance

## Key Features and Benefits

The UV222 Ambulance boasts a compact and versatile design that allows for direct mounting in various locations within the vehicle, including side panels, top panels, and corners. This flexibility ensures that the device can be tailored to meet the specific needs of different ambulance models while remaining unobtrusive. By utilizing Far-UVC technology, the UV222 Ambulance continuously inactivates microorganisms, providing essential protection for both emergency care personnel and patients. The proactive nature of this system helps to mitigate the risk of cross-contamination and enhances overall patient safety during transport, ultimately leading to improved outcomes in emergency medical situations.

## Advanced Control Systems

The UV222 Ambulance is equipped with advanced control systems that allow for versatile operation modes, including continuous use, duty cycle, and motion activation. This adaptability enables the device to function effectively in various scenarios, ensuring that decontamination occurs precisely when needed. Emergency personnel can easily control the system, allowing for enhanced efficiency in high-pressure situations.



## 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.   |
| Ecological | Note: UV222 installations must be performed by authorized installers only. UV222TM is mercury-free. It offers decontamination without the use of chemicals or leaving any residue. |

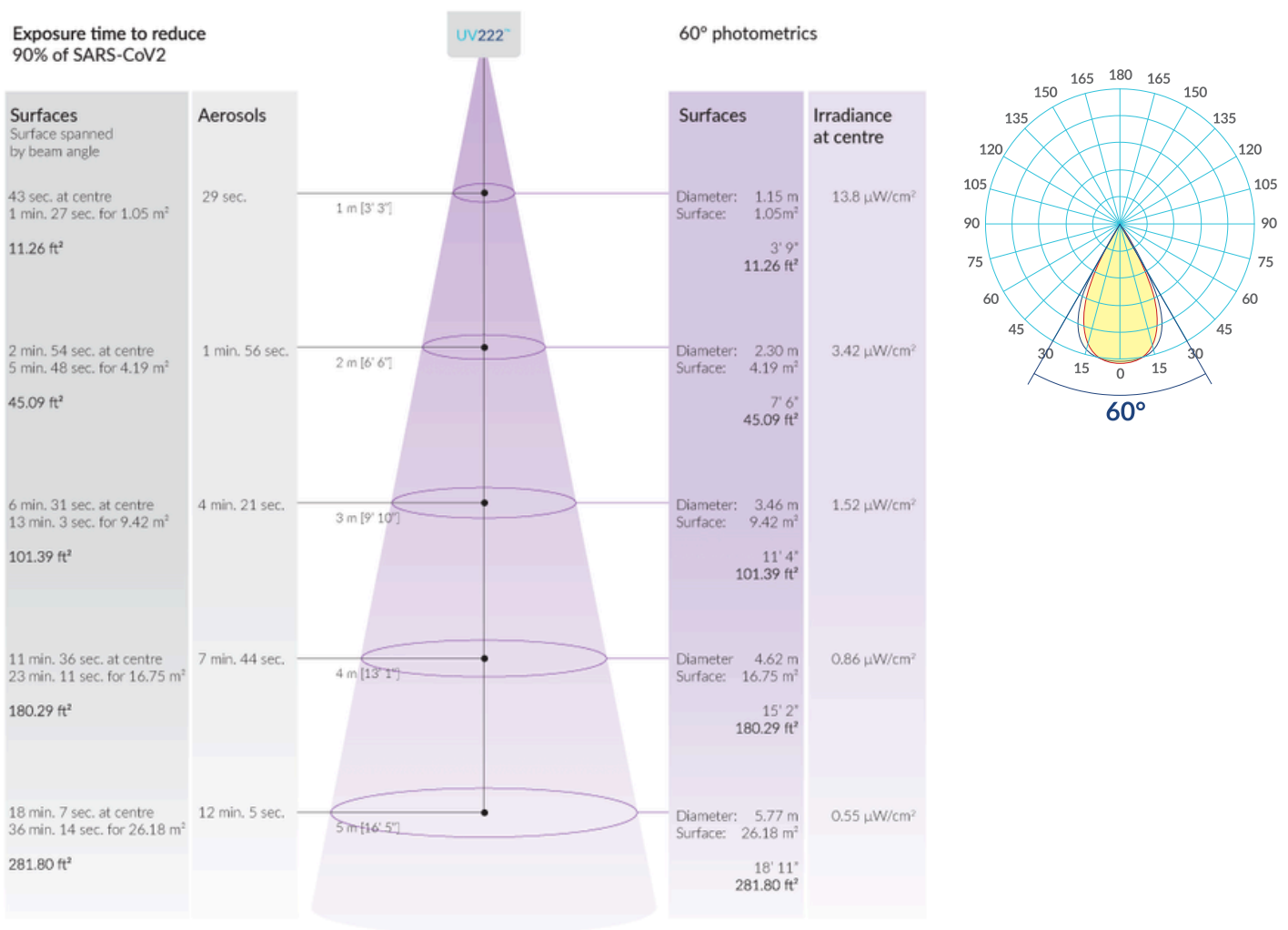
# UV222 Ambulance

## Photometrics and Efficacy of the 60° Model

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

The UV222 Ambulance 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 humans.

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/cm<sup>2</sup>

**Dose needed (222 nm, COVID-19) 90% inactivation for surfaces:** 600 µJ/cm<sup>2</sup>

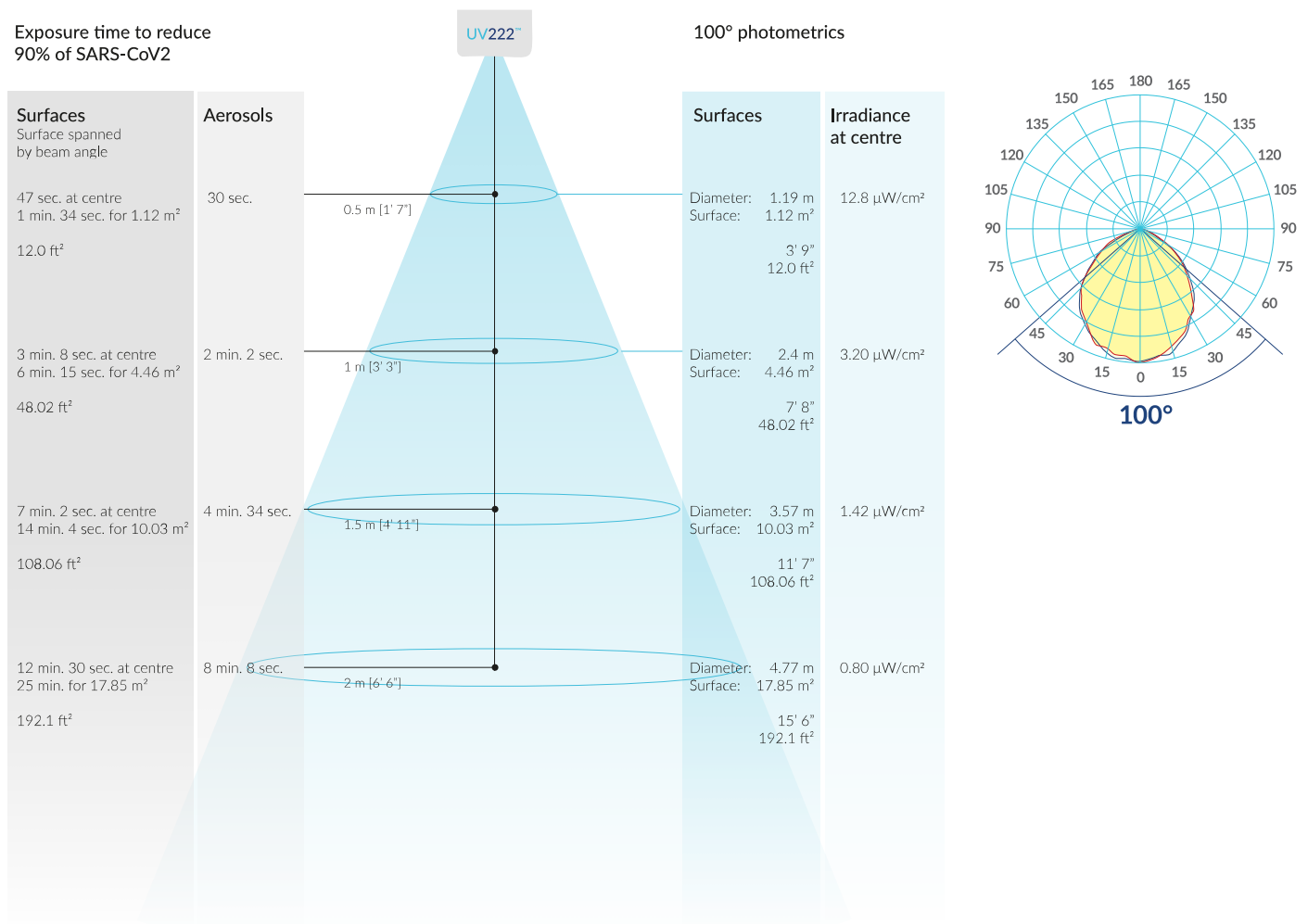
# UV222 Ambulance

## Photometrics and Efficacy of the 100° Model

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

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/cm<sup>2</sup>**

**Dose needed (222 nm, COVID-19) 90% inactivation for surfaces: 600 μJ/cm<sup>2</sup>**

# UV222 Ambulance

## Installation and Integration

Designed for straightforward installation, the UV222 Ambulance is created for direct mounting inside the rear cabin, it can be placed on side panels, top panels, corners, or other suitable locations based on specific requirements. The compact design of the UV222 Ambulance lamp ensures that it does not interfere with the work of emergency care personnel. These lamps are designed to continuously inactivate microorganisms, providing protection for both emergency care personnel and patients. This protection is effective both between patients and during ambulance operation, creating a safer environment for everyone involved in emergency care.

## Maintenance & Serviceability

With a durable design and minimal maintenance requirements, the UV222 Ambulance ensures continuous operation with little intervention. Regular performance assessments can be performed easily, allowing facilities to keep track of its efficacy and ensure that it continues to meet hygiene standards. The device's robust construction further supports its longevity and reliability in demanding environments.

## Environmental Impact

The 222 Ambulance is engineered with sustainability in mind, utilizing energy-efficient technology that not only reduces operational costs but also lowers the overall carbon footprint. By eliminating the need for chemical disinfectants, it contributes to a healthier environment, aligning with eco-friendly practices and supporting the commitment to sustainability in healthcare and public spaces.

## Regulatory Compliance

The 222 Ambulance adheres to stringent health and safety regulations, ensuring it is compliant with international standards for safe use in occupied spaces. Its design prioritizes user safety while maintaining effective disinfection, making it a reliable choice for institutions that must uphold high hygiene standards.

The Far-UVC Light Model UV222 Ambulance 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. |
|---|---|

