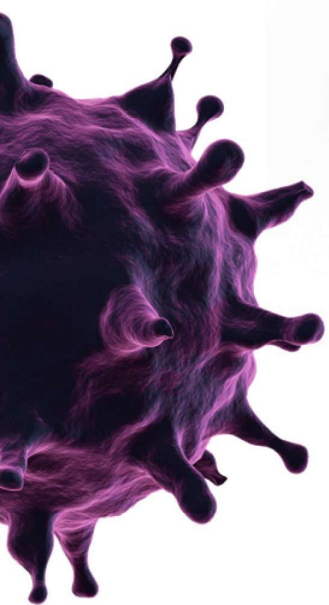


UV222™ Effective and safe disinfection for everyday life



Innovative solutions for this pandemic and the next

The wavelengths of Far UV-C rapidly inactivate SARS-CoV-2, the virus that causes COVID-19, as well as other common airborne and surface pathogens such as bacteria, mildew, mites, spores, fungi, and even antibiotic-resistant superbacteria like MRSA.

The UV222™ lamp from UV Medico harnesses this game changing technology and thus offers a highly effective solution for surface and air disinfection. The UV222™ can be used in all spaces and is safe to use in presence of people.

UV222™ is an essential tool to prevent the spread of existing and emerging viruses and other potential infections. The lamp is a technologically founded answer to the challenges we face from COVID-19 as well as to similar threats in the future.

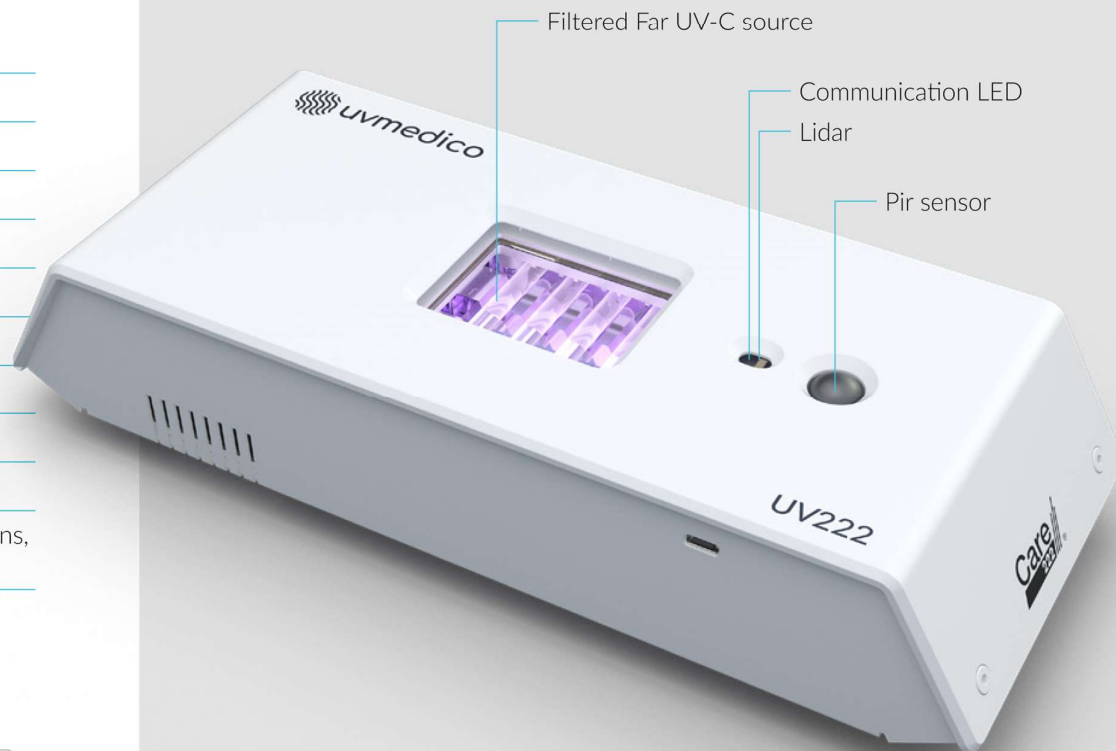
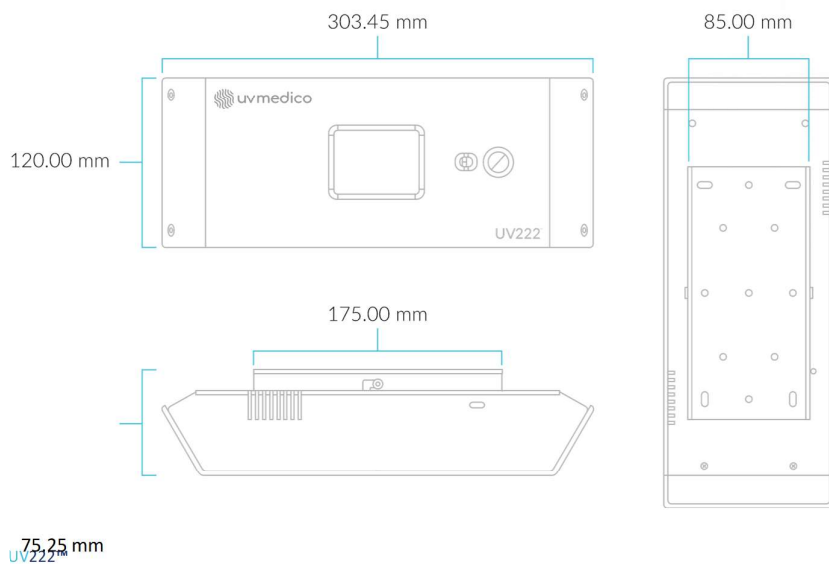
Facts about UV222™

Safety/legal	UV222™ is 100% safe to use in presence of humans and animals, and fully complies with the international standards of UV radiation.
Effective/ direct result	222nm is an effective disinfection method with immediate proven results. Research from across the world has proven 222nm germicidal effect.
Knowledge/ education	UV222™ is developed and engineered in cooperation with several universities and is thoroughly tested and documented. UV222™ can only be installed by UV Medico certified installers.
Ecological	Does not contain mercury. Disinfection without chemicals or residue.



UV222™ specifications

Light source	Krypton Chloride Excimer Lamp
Wavelength	222 nm
Output	130 mW (Typical)
Input voltage	85-305V AC 50/60HZ
Max power consumption	17W
Weight	1.9 kg
Dimensions	303.45 x 120 x 75.25 mm
Power lead	3 x 0.75 mm ²
Operating temperature	0 to +50°C
Content	UV222™, Measurement report, Safety Regulations, Installation Guide and Manual.



Colours

Standard colour: White (RAL 9010)
Custom colour on demand.



Case MuteBox

Safe meetings and breaks

With the installation of UV222™ on the ceiling of the MuteBox, you can safely have a meeting or take a break in safe surroundings.

Prior to installation, a simulation has been made to calculate the disinfection time. After one and a half minutes the MuteBox is disinfected.

UV222™ is programmed to never exceed the UV irradiance dose allowed by international standards and guidelines. It assures that the MuteBox will be disinfected, before, during, and after every use, thus creating a barrier between meetings and possible infections.



Facts about Mutebox

Dimensions	W: 2046 mm x H: 2230 x D: 1305
Space	2.7 m² - 4 persons
Inventory	1 table, 2 benches, 1 screen and whiteboard
Number of UV222™	1

Case Café Dan Turèll

Serving in safe surroundings

Café Dan Turèll became the first restaurant in Copenhagen to install our human-safe far-UVC lamp, UV222™, for continuous and efficient disinfection of the air and surfaces.

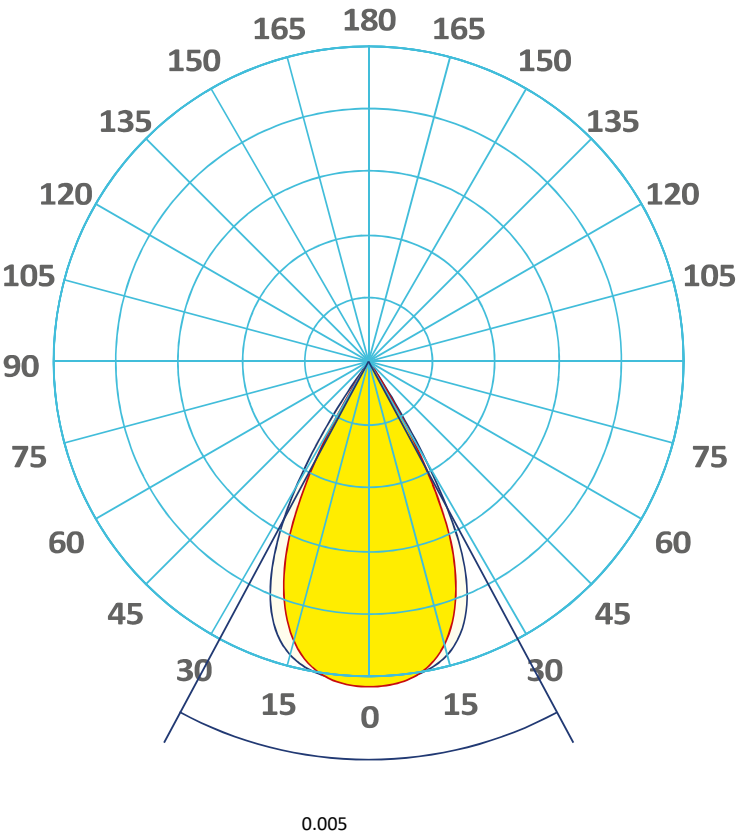
The preliminary results from Café Dan Turèll showed that it was possible to deactivate more than 99% of bacteria - matching previous results on viruses such as SARS-CoV-2.

This significantly reduces the spread of infectious diseases and provides safe surroundings for both customers and staff.

The UV222™ is delivered in a custom yellow, ensuring a perfect match to the iconic styling in Café Dan Turèll.



Beam angle



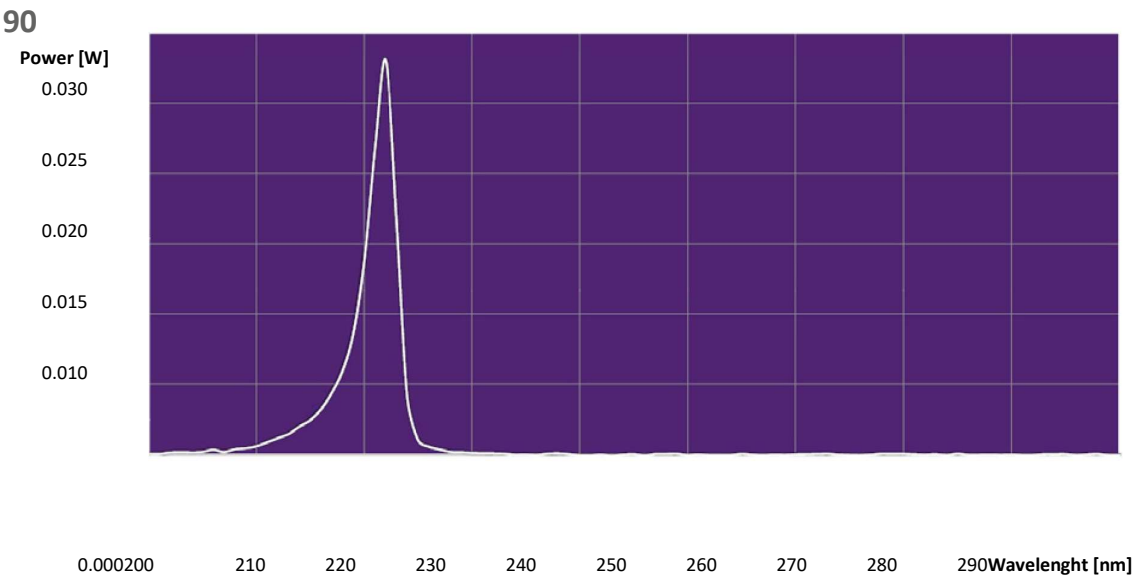
57.4°

Light Measurement Results

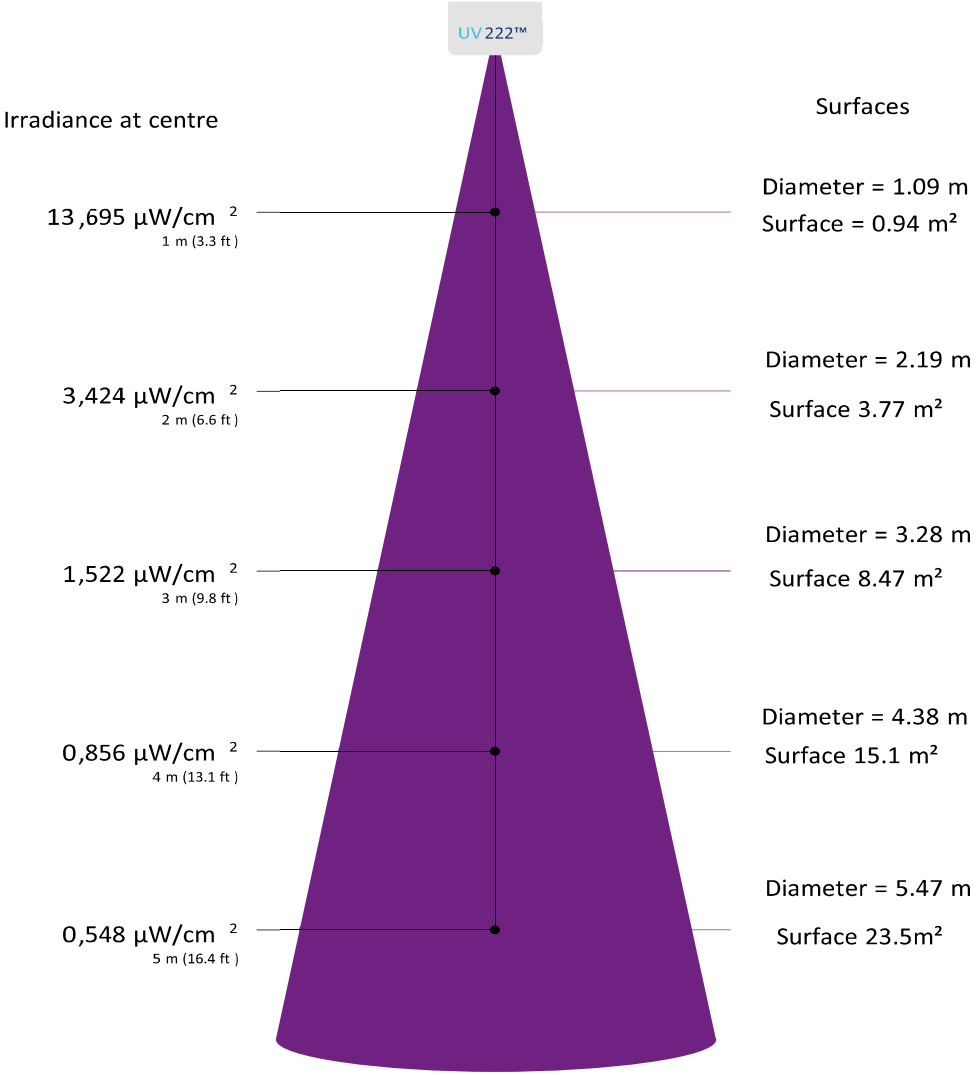
Output - total optical power flux, 200 nm - 850 nm	126.92 mW
Far UV-C 200 nm -230 nm 200 nm - 290 nm	120.79 mW
VIS-IR: 400 nm - 850 nm	6.81 mW
Radiated power/lamp power	0.926 %
Peak emission wavelength	222 nm
UV irradiance at 222 nm (distance 1 m)	13.7 $\mu\text{W}/\text{cm}^2$
Beam angle	57 °

Far UV-C at 222 nm

(measured spectrum spectrum)



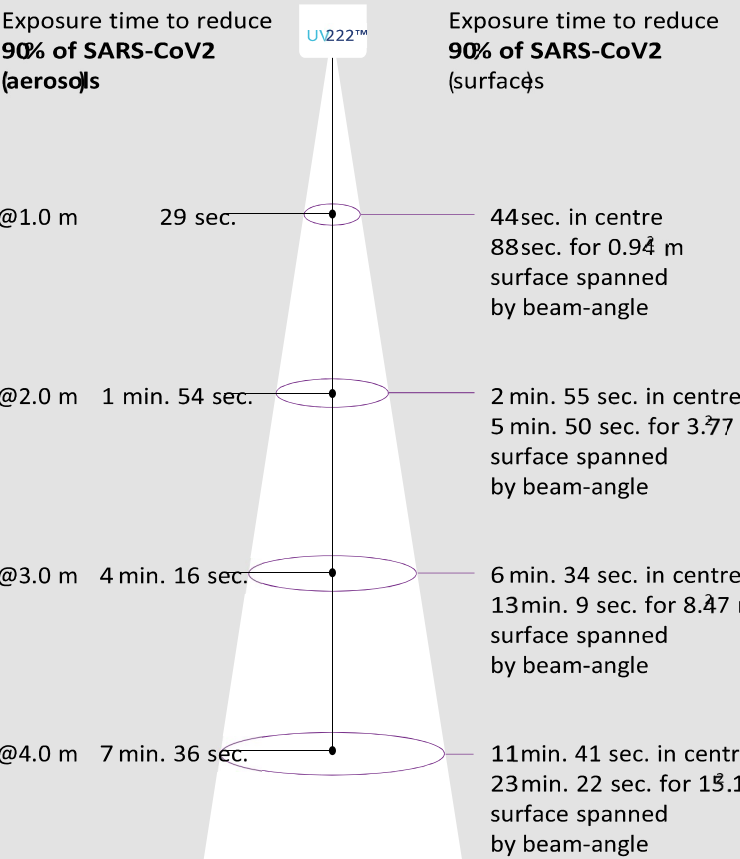
Photometrics



UV222™

Exposure time - SARS-CoV2/COVID-19

Peak emission wavelength	222.00nm
Output power in range (200-230 nm)	120mW
Dose needed (222 nm, COVID-19) 90% deactivation for aerosols	390 $\mu\text{J}/\text{cm}^2$
Dose needed (222 nm, COVID-19) 90% deactivation for surfaces	600 $\mu\text{J}/\text{cm}^2$



Why is UV222™ Safe?

- UV222™ emits a narrow-band UV spectrum due to a new unique patented filter technology.
- UV222™ complies with the UL867 regulation on maximum concentration of ozone generation.

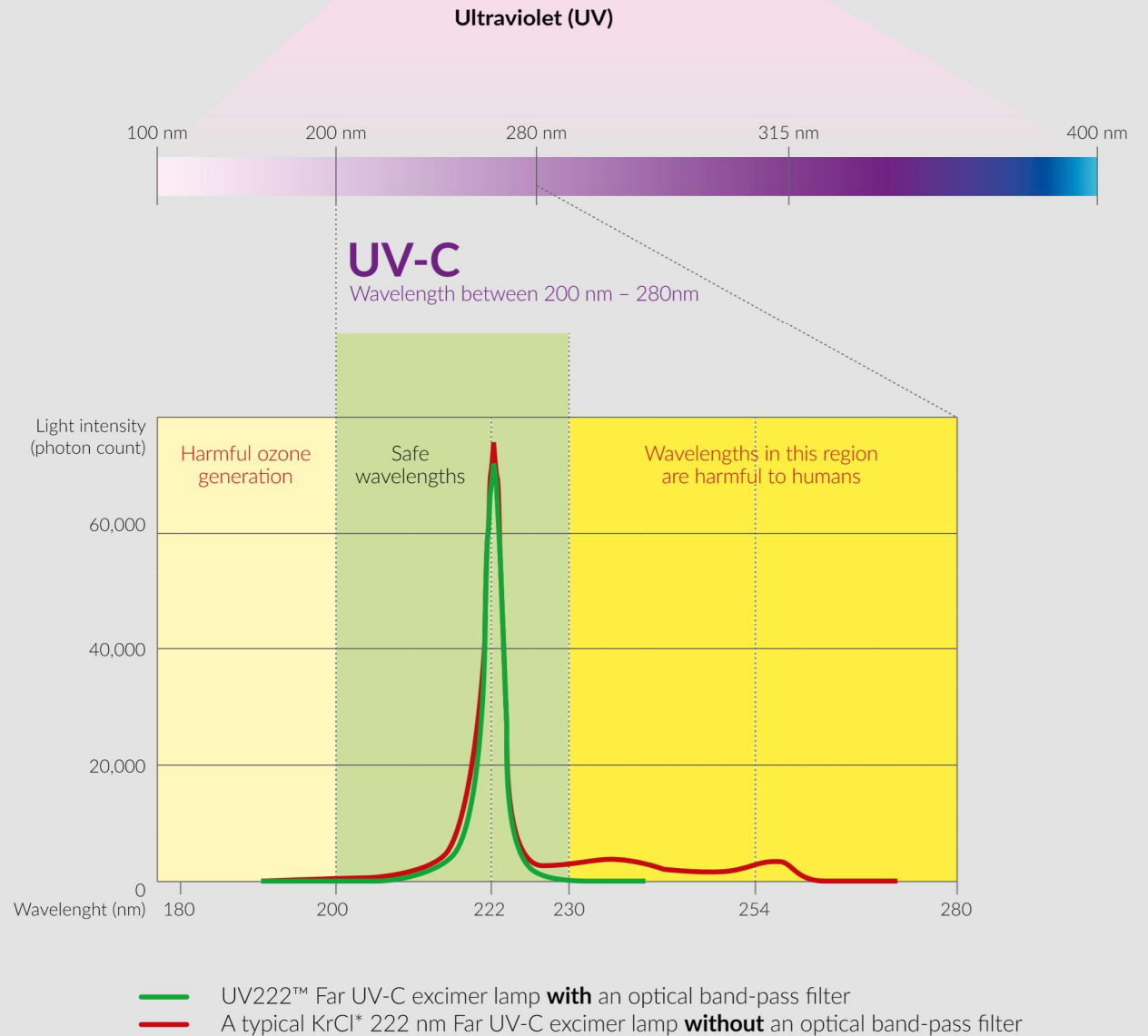
UV222™ does not generate harmful wavelengths.



!WARNING!

Non-filtered/unfiltered Far UV-C will cause cancer and cataract!

UV222™



Exposure to harmful wavelengths is eliminated by an exclusive, patented optical band-pass filter.

Contact

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In compliance with

International Standard:

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 Industrial Hygienists)	2021 TVL (Threshold Limit Values) & BEI (Biological Exposure Indices) for chemical substances and physical agents.
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UV222™