



UVD ROBOTS

Autonomous UV-C Disinfection



THE PERFECT **TEAMPLAYER**

UVD Robots is the world's leading provider of autonomous, self-driving, disinfection robots that use the germicidal qualities of UV-C irradiation. Healthcare institutions across six continents deploy UVD Robots in their daily preventative sanitation practices.

UVD Robots provide fully automated disinfection solutions with safer, predictable, and cost-effective outcomes. The UVD Robot is chemical-free and requires minimal interaction with staff, ensuring operational effectiveness and efficient use of on-site personnel. The UVD Robot continually adapts as a robotic platform to be smarter, better, and more user-friendly.

Bring Environmental Hygiene to a **Higher level**



EFFICACY

UV-C light improves environmental hygiene through disinfection, limiting the risks associated with transmitted microorganisms. It is the perfect solution for bringing disinfection protocols to a higher level in an environment.

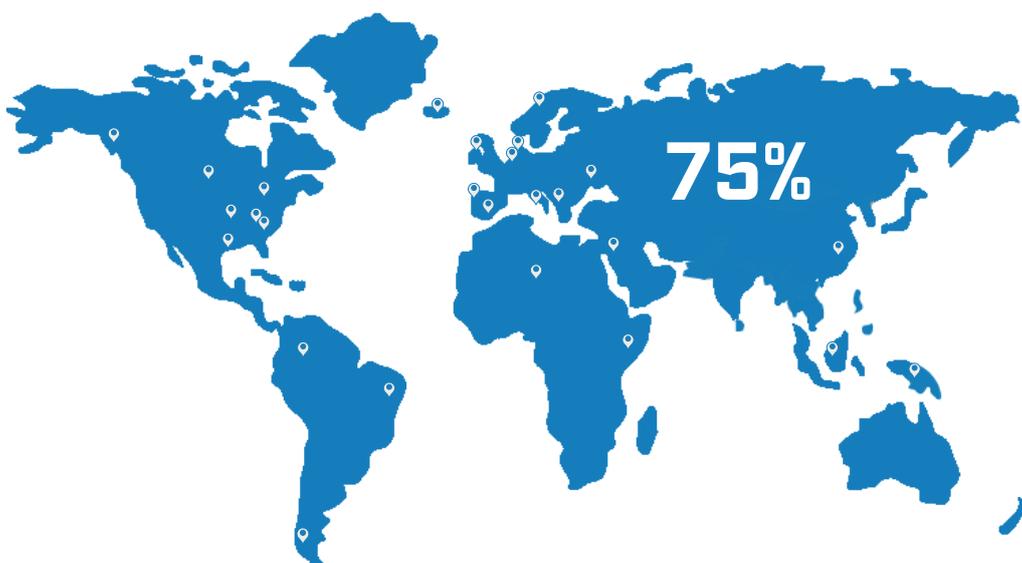
**ELIMINATES
MICROORGANISMS WITH**

99.99%

EFFICACY

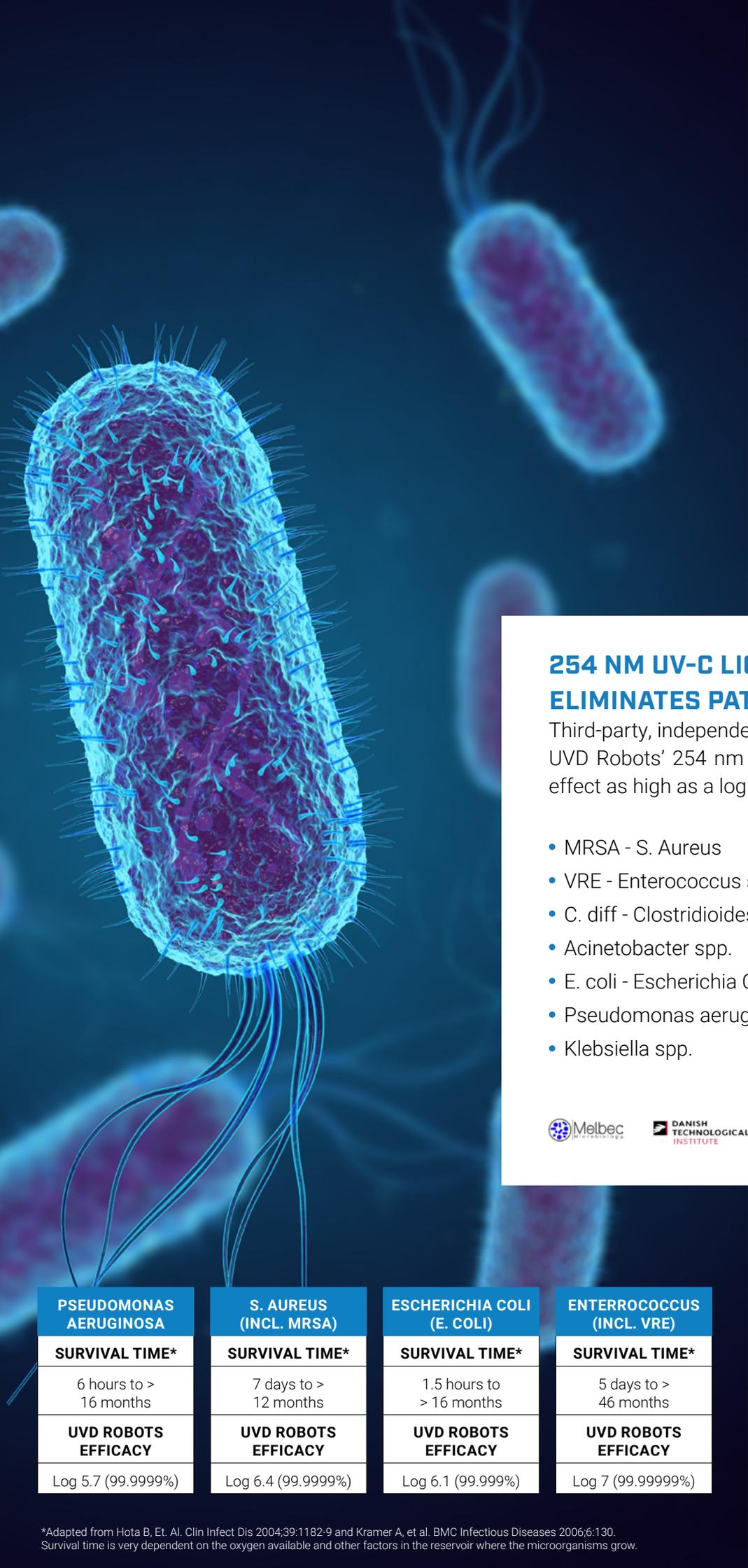
EFFICIENCY

Achieve faster room turnaround times and reduce labor and consumable costs significantly by using automated disinfection.



With a **75% market share, UVD Robots is the market leader in autonomous disinfection**

*BCG Market Report 2020.



254 NM UV-C LIGHT EFFECTIVELY ELIMINATES PATHOGENS

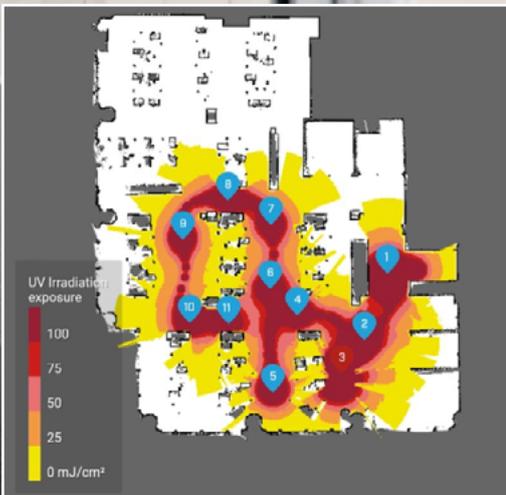
Third-party, independent UV-C laboratory tests show UVD Robots' 254 nm UV-C light has a deactivation effect as high as a log 7 reduction, or **99.99999%**.

- MRSA - S. Aureus
- VRE - Enterococcus spp.
- C. diff - Clostridioides difficile
- Acinetobacter spp.
- E. coli - Escherichia Coli
- Pseudomonas aeruginosa
- Klebsiella spp.



PSEUDOMONAS AERUGINOSA	S. AUREUS (INCL. MRSA)	ESCHERICHIA COLI (E. COLI)	ENTEROCOCCUS (INCL. VRE)
SURVIVAL TIME*	SURVIVAL TIME*	SURVIVAL TIME*	SURVIVAL TIME*
6 hours to > 16 months	7 days to > 12 months	1.5 hours to > 16 months	5 days to > 46 months
UVD ROBOTS EFFICACY	UVD ROBOTS EFFICACY	UVD ROBOTS EFFICACY	UVD ROBOTS EFFICACY
Log 5.7 (99.9999%)	Log 6.4 (99.9999%)	Log 6.1 (99.999%)	Log 7 (99.99999%)

*Adapted from Hota B, Et. Al. Clin Infect Dis 2004;39:1182-9 and Kramer A, et al. BMC Infectious Diseases 2006;6:130. Survival time is very dependent on the oxygen available and other factors in the reservoir where the microorganisms grow.



UV GERMICIDAL IRRADIATION

UV kills cells as a result of accumulated DNA/RNA damage. Within a cell, the p53 gene produces proteins that slow the cell cycle and check for damage. If there is fixable damage, the p53 gene sends in proteins to repair the cell. If the damage is too extensive, the gene directs the cell to apoptosis, or programmed cell death. UV-C Light has a wavelength that ranges from 200 to 280 nm, and its maximum germicidal effect range is between 260 and 265 nm. Mercury vapor lamps emit more than 90% of their radiation at 253.7 nm, which is close to the maximum microbicidal range.

A COMPREHENSIVE OVERVIEW

UV-C light has some limitations when it comes to shadows and distances. The UVD Robot, however, distributes UV-C light evenly in its environment, in an effective whole-room capacity. With the UVD Robots Fleet Administration system, you get a live overview of your fleet of UVD Robots. You can access all aspects of your disinfection history: which rooms were disinfected; how well were they disinfected, and much more. You also have access to detailed disinfection reports, including UV-C exposure maps of the disinfected areas, all of which can be exported into PDF format.

The UVD Robots Service Program

Your success is not just about keeping the UVD Robot running. We are committed to ensuring that you will be successful in using your UVD Robot.

The UVD Robots Service Program is a comprehensive service program intended to help you to realize the full potential of your UVD Robot at the right level of service for your business.

The future cannot be predicted. But you can plan for it.

You can choose between multiple service-level options based on your specific needs.



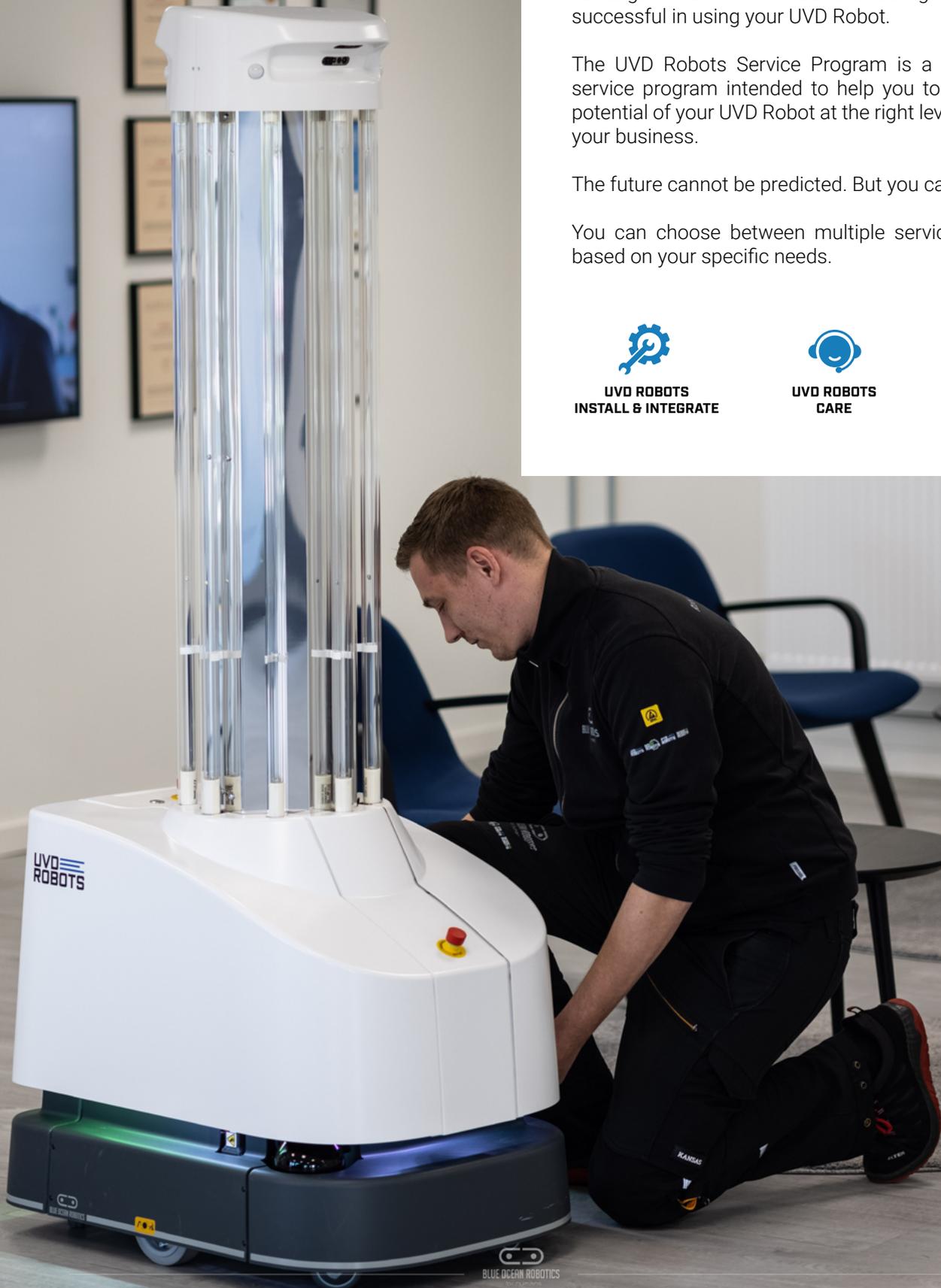
**UVD ROBOTS
INSTALL & INTEGRATE**



**UVD ROBOTS
CARE**



**UVD ROBOTS
CARE +**



Multilayer Safety System

The UVD Robot is equipped with a multilayer safety system, meaning it has numerous safety features for different operational levels. These settings can be configured in the UVD Robot's operating system. The disinfection process will stop immediately in relation to:



Connectivity

In case the robot moves out of its operating range



Heat sensor activation

In case the robot detects someone in close proximity



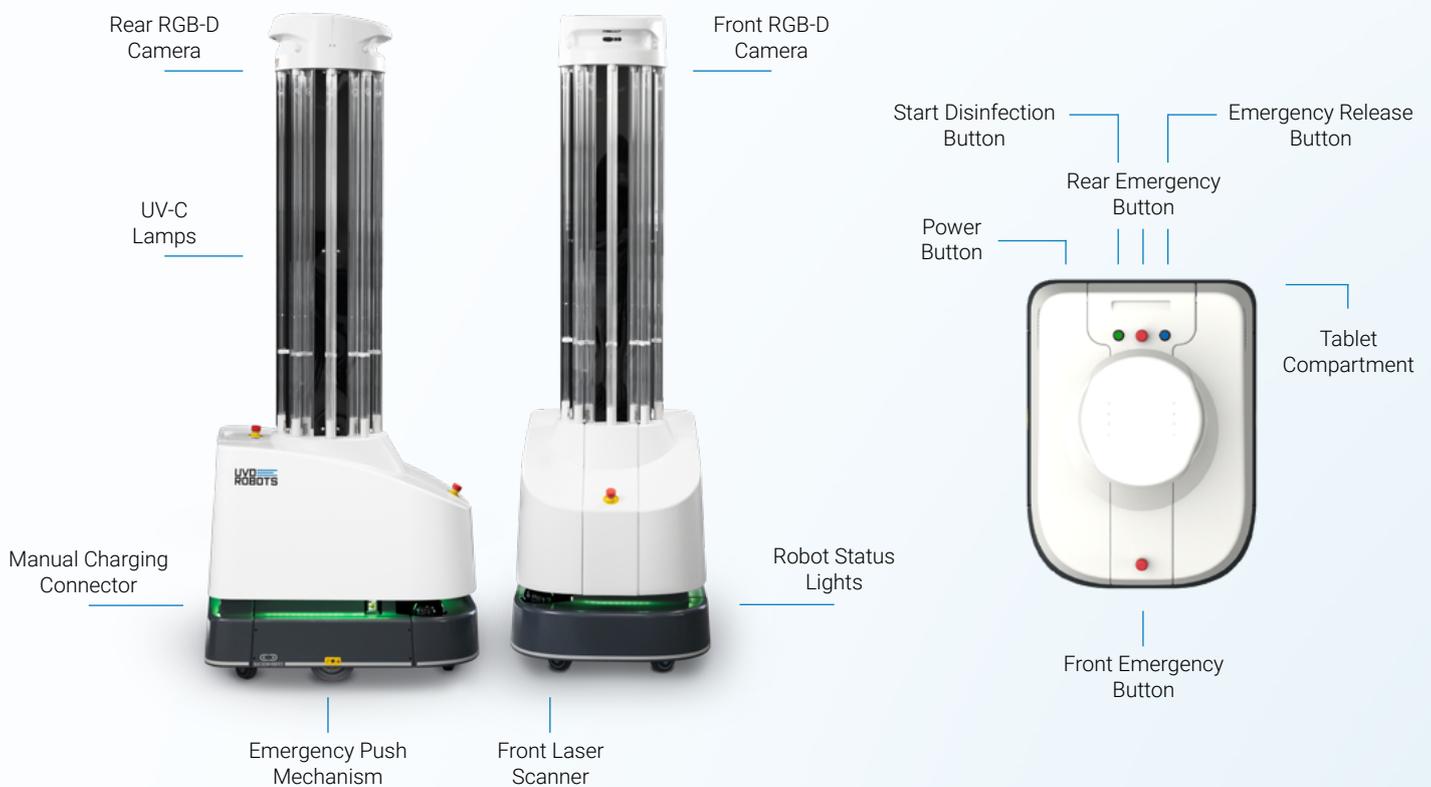
Tablet movement

In case the control tablet is shaken or moved abruptly



Walk sensor activation

In case the robot detects someone moving nearby



Disinfection Coverage	360 degrees
Disinfection Time	10 min - Regular room including toilet - 269 sq ft / 25 m ² 30 min - Large area - 5,382 sq ft / 500 m ²
Connectivity	Wireless (Wi-Fi-based)
UV-C Wavelength	254 nm (Ozone-free)
Charging Requirements	220-240 VAC, 50 Hz, 6 Amps
Safety	Software & Sensor-based Emergency Stop Button

UVD ROBOTS

AWARDS



WWW.UVD-ROBOTS.COM

GETTING IN TOUCH IS EASY



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