UVD ROBOTS

OUT OF THE BOX
SOLUTION

WWW.UVD-ROBOTS.COM

UV Disinfection solution increases **patient safety**

3RD GENERATION AUTONOMOUS UV-C DISINFECTION

Hospital Acquired Infections are a significant and increasing problem in the global healthcare sector. Each year millions of patients are infected and thousands of patients die due to infections acquired during hospitalisation. Furthermore, HAIs generate a massive financial burden.

REVOLUTIONIZING INFECTION PREVENTION

The UVD Robot® Model C has been designed based on feedback from infection prevention specialists to be part of a regular cleaning routine, and aims at reducing the spread of infectious diseases, bacteria, and other types of harmful organic micro-organisms and pathogens in the environment. Our agile 3rd generation robot has several new features, that raises to a higher level of infection prevention.

Our UVD Robot® disinfects small and large areas simply just by driving by. Depending on the exposure time, The UVD Robot can kill up to **99.99%** of pathogens such as covid-19. It disinfects all kinds of surfaces, which contains thousands of different bacteria, but also it can significantly reduce the bacterial count in the air.

THE UVD ROBOT®

- A fully autonomous mobile platform emitting concentrated UV-C light onto high, medium and low touch surfaces in support of normal cleaning routines
- Prevents and reduces the spread of infectious microorganisms in the environment
- Safe, reliable and user friendly operation by hospital cleaning staff
- Reduces hospital acquired infection rates and associated costs

WHY ARE UVD ROBOTS MORE EFFECTIVE AGAINST SARS-COV-2?

The germicidal characteristics of UV-C light at close range are well known. However, the laws of physics governing distance to surface and shadow, present a challenge to the feasibility of using UV-C light as a disinfectant in larger areas. These include small and large areas at hospitals, nursing homes, rehabilitation centers, etc. The agility and autonomy of the UVD Robot® overcome these challenges, and the UVD Robot is the only fast and efficient solution to large area disinfection.

As the robot drives by
it delivers approximately
70mJ/cm² of UV-C

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3 x the dose required
to reduce SARS-CoV-2
by 99.9999%

In June 2020, the company supplying the UV-C lamps mounted on the UVD robot commissioned clinical trials to test the efficacy of their lamps against SARS-CoV-2.

The test was carried out at The National Emerging Infectious Diseases Laboratories (NEIDL) at Boston University in the US with the university concluding that a dose of 22mJ / cm² would reduce the virus by 99.9999%.

"It will save lives, it will reduce waiting lists, it will reduce hospital-acquired infections."

DR. BRUCE MAZER
Interim Executive Director and
Acting Chief Scientific Officer of the Research Institute

KEY BENEFITS

Autonomous mobile solution
Fast and efficient disinfection process
Standard process without manual labour
Easy to install and use

UVD ROBOT MODEL C

DIMENSIONS: L: 75 x W: 55 x H: 178 (cm)

TECHNICAL SPECIFICATIONS

- TOTAL WEIGHT.....120 kg
- OPERATING TIME..... 2 hours (disinfects up to 12,000 m^2)
- BATTERY CHARGING TIME.....5 hours
- DISINFECTION COVERAGE.....360 degrees
- DISINFECTION TIME.....10 min - Regular patient room incl. a toilet - 25m^2
  30 min - Large area - 500 m^2
- CONNECTIVITY..... Wireless (Wi-Fi based)
- MAX SPEED.....2.7 km/h
- UV-C WAVELENGTH..... 254 nm (Ozone free)
- UV-C LAMP LIFESPAN.....12,000 hours of disinfection
- CHARGING REQUIREMENTS....220-240 VAC, 50 Hz, 6 Amps
- SAFETY..... Software & Sensors Based
  Emergency Stop Button

VAL EDWARDS JONES
EMERITUS PROFESSOR
OF MEDICAL MICROBIOLOGY

"The UVD Robot from Denmark is most impressive because of its ability to move autonomously and get within 1m of the surface to be disinfected and also it is capable of moving around objects that can potentially cause shadowing"

MARIN REPUSTIC
DIRECTOR ASSISTANT FOR QUALITY OF HEALTHCARE
GENERAL HOSPITAL, CROATIA

"We reduced the time we spent disinfecting by 1.5 hours, freeing up our staff to focus on more important tasks while also enabling us to have a higher turn-over in surgeries"

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IERA AWARD
Innovation and Entrepreneurship in Robotics and Automation

The UVD Robot® is highly effective in the inactivation of harmful microorganisms and it is deployed by hospitals all over the world to protect vulnerable patients from hospital acquired infections. The clinical efficacy of the UVD Robot has been independently tested and validated at the following institutes:

Melbec Microbiology

DANISH TECHNOLOGICAL INSTITUTE