



UV-C Sterilising Robots now available!

All successful companies understand that one of the largest foundations for their success is the health and well-being of both their customers and staff. So, the big question any good employer will consider as we move away from the hard and soft curfew restrictions in Cayman is - What can I do to best ensure the continued good health of my employees in our workspace? This question is now more important as ever, given the considerable life-threatening impact coupled with the high contagiousness and virility of Covid-19. This fear of both being infected and spreading the virus to others will continue to be a very large concern globally until a vaccine is created to immunise our community from getting or passing on the infection. Until this time, we look for the best solutions that are available in the marketplace today.

There are two components that need to be taken together to be effective safeguard against transmission in a workplace. Firstly, an employer must ensure that proper face masks are being used around others at all times, frequent hand washing/sanitising practices, plus ensuring social distancing protocols are religiously followed. Secondly, the employer provide a sterile environment free of all viruses and bacteria for your employees and customers to operate in. The first component is a matter of practices and procedures created and enforced within a workplace and hopefully followed in public by all employees. The second component, providing a pathogen-free, clean workplace is up to the employer.

There are now two choices for sterilising a workplace — either spraying liquid solvents over every inch of your office, repeatedly, and let sit for 9 minutes before wiping down the solvent - or sterilising with UV-C light. Because UV sterilisation isn't a wet solution like other disinfectants that can leave behind residue, it can be used as a more efficient solution for ensuring that equipment and instruments are effectively cleaned. The sterility of the environment can also be compromised due to cleaning staff not doing their job effectively each and every time. Liquid sterilising is time consuming to be done properly, subject to human error, cannot be used well on porous materials (paper/fabric), and very labour intensive. It also exposes both your employees and cleaning staff repeatedly high doses of strong chemicals and the potential damage that these can cause to their health.

Natural UV light is generated by the sun, with about ten percent of sunlight being UV, and only about three to four percent penetrating the atmosphere to reach the ground. Of the UV radiation that reaches the earth, 95 percent is UV-A and five percent is UV-B. No measurable UV-C from the sun reaches the earth's surface. Because of the spectral sensitivity of DNA, only UV-C light has significant harmful effects on germicidal properties. The strategy in UV-C disinfection has been to provide a sufficiently high dosage to ensure that both DNA and RNA material in harmful bacteria and viruses are damaged beyond repair, neutralising them from replicating or harming anyone.

Since the 20th century, UV sterilisation has been used to disinfect things like water and work surfaces. UV light is a shorter wavelength than visible light, and is able to penetrate and destroy the bodies of viruses and bacteria. Most UV sterilisation devices use UV-C light as the source of their disinfecting power. UV-C light is an effective solution for sterilisation, which is why it is the most widely used light type. The use of UV-C sterilisation, or ultraviolet germicidal irradiation, has been found to be extremely effective. Sources of UV-C sterilisation can kill over 99% of viruses, bacteria, and fungi in an extremely short amount of time. UV-C can also sterilise equipment in work spaces.

This is where UVD Robots comes into the picture. UVD Robots is a Danish based company founded in 2016 that combines the latest technology in mobile robots with an ultraviolet light top module. The UVD Robot, clinically tested and verified, is used as part of the regular cleaning cycle, and aims at preventing and reducing the spread of infectious diseases, viruses, bacteria, and other types of harmful organic microorganisms in the environment by breaking down their DNA-structure. As direct exposure to UV-C light is harmful to both plants and animals, the UVD Robot increases the safety of both staff, patients, and your customers by reducing the risk of contact with bacteria, viruses and other harmful microorganisms. The concentrated UV-C light emitted by the robots as they drive has a germicidal effect that removes virtually all airborne viruses and bacteria on porous and non-porous surfaces of a room.

The UVD robot It is fast, efficient, simple to use and extremely effective - it

can eliminate 99.999% of all bacteria within 10 minutes in a patient room or standard white collar office. It is also extremely effective when used in larger work spaces when used as part of an evening maintenance program, cleaning your public and group areas effectively and automatically outside of normal business hours. The UVD Robot is a rechargeable, self-docking Smart-robot with built-in cameras, proximity and motion sensors with fully-programmable, self function capability that can follow pre-programmed routes to clean room after room without having endangering the well-being of your cleaning staff.

Sold in more than 40 countries around the world, the UVD Robot is now available for the first time in the Cayman Islands and across the Caribbean. Since 2018, UVD Robots has been delivering its self-driving disinfection robots to hospitals, hotels, ports and airports, warehouses, libraries, government offices and private businesses on all continents across the globe. LED Specialists is the UVD Robot Dealer for the Cayman Islands offering Sales, Product Support, Staff Training, Product Maintenance and ongoing support of the throughout the Caribbean.

Below are some links to both printed material and videos that will give you a much better understanding of how the UVD Robot looks in action, why it is both the most effective commercial UV-C sterilising device in the market today and also the safest.

For further information regarding the UVD Robot, please contact LED Specialists at 623-3463 or email info@leds.ky.

<http://www.uvd-robots.com> **UVD Robot Website**

<https://drive.google.com/open?id=17Pvo9PHSYvLbwPhImRUDkuHq7xz7yxwz> **Google drive with a number of UVD Robot on product literature and videos.**

<https://youtu.be/OJ08BuyejuE> **NBC Report yesterday on UV-C light as an effective sterilising tool.**

<https://www.linkedin.com/company/uvd-robots/> **UVD Robot LinkedIn page with videos of the UVD Robot being used around the world.**