

# An autonomous solution for cleaning and disinfecting floors

The Nilfisk Liberty SC50 and UVGI module combines a market-leading autonomous floor cleaning machine with UVGI technology (Ultraviolet Germicidal Irradiation) to meet the highest standards of hygiene. The UVGI module has been developed with Carnegie Robotics and is located at the back of the SC50 directly behind the scrub deck allowing for dirt and debris to be removed while simultaneously disinfecting surfaces using UV-C light. This combination is ideal for indoor spaces where hygiene is of the utmost importance.

The UV-C light is directed in the immediate vicinity on the floor and delivered in a dose that responds to coronaviruses and other pathogens. The UV-C light used in the SC50 module meets all applicable safety standards, including certification by Intertek. The UV-C exposure is limited to the floor under the SC50, which allows safe operation in the vicinity of people. The EPA registration number for the Liberty SC50 UVGI solution is 97307-PA-1.

A new report from the US Centre for Disease Control (CDC) names shoe soles as potential carrier for the spread of SARS-CoV-2. "When medical personnel walk around the ward, the virus can be tracked all over the floor like the 100% positivity rate from the floor the pharmacy shows off where there were no patients. In addition, half of the samples were from the The soles of the shoes of the medical staff in the intensive care unit tested positive. Therefore, the soles of the shoes of the medical staff act as a carrier." (1)



## Freedom to do better with autonomous floor cleaning - Liberty SC50

### » **Multiply your workforce**

Your cleaning team can focus on more labour-intensive tasks that require a human touch, such as cleaning and disinfecting high-contact surfaces while the Liberty SC50 cleans the floors autonomously

### » **Consistent cleaning results, always**

The Nilfisk Liberty SC50 always shows up for duty and achieves between 98% and 99.5% coverage with programmable, path-based cleaning. Cleaning staff which typically miss 15% of floor space

### » **Proof of cleanliness**

Keep track of when, where and how long the Liberty SC50 cleaned and use data for more informed operational decisions

### » **Optimise your labour costs**

Achieve a positive return on investment (ROI) just by saving man hours

<sup>1</sup> [https://wwwnc.cdc.gov/eid/article/26/7/20-0885\\_article](https://wwwnc.cdc.gov/eid/article/26/7/20-0885_article)

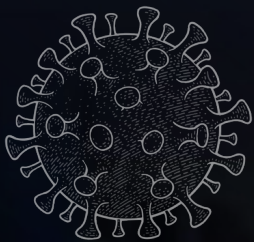
# Achieve a deeper level of clean by combining UV-C disinfection technology with the Liberty SC50 robotic scrubber dryer

## Use of proven technology

Backed by decades of studies, UV-C is a widely used germicidal solution. Exposure to UV-C light deactivates the DNA of bacteria, viruses and other pathogens, by overriding their ability to reproduce and cause disease.<sup>2</sup>

## A perfect pairing

By combining the effective floorcare capabilities of the Liberty SC50 with the germicidal effect of UV-C exposure, Nilfisk aims to deliver higher quality cleaning and disinfection. The UVGI module is ready for integration with your current Liberty SC50, or as part of a new installation at your facility!



According to the WHO, SARS-CoV-2 behaves (Covid-19) similar to other coronaviruses, i.e. it can on surfaces for a period of several hours persist for up to several days. The duration can vary according to different conditions (e.g. surface type, Temperature and / or ambient humidity).



## Ideal for use in

- Hospitals
- Retail
- Airports
- Schools
- Shopping centres
- Public buildings
- Transport hubs
- Pharmaceutical and Food manufacturing

## Safe for operation

- Your safety is paramount. The UVGI unit of the Liberty SC50 complies with all applicable safety standards, certification by third parties is still pending.
- No special precautions are required while using this new technology; the UVGI is fully enclosed and secured under the machine, it was developed for safe operation near people.

<sup>2</sup> <https://sites.nationalacademies.org/BasedOnScience/covid-19-does-ultraviolet-light-kill-the-coronavirus/index.htm>