

Problem Addressed



Low commercial building occupancy rates



The amount of high touch areas to be treated



Growing concerns of chemical exposure and perceived risk of COVID infection for the staff and public

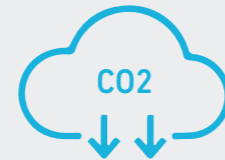
Key Achievements



Reduced overall chemical use by **> 32%**



Handhelds allowed **60%** better access to surface



CO2 emissions reduced by **961kg**



2 hours per day manual vacuuming saved



Annual cost savings of over **20%**



Cleaning staff productivity boosted by **30%**

Product Specification *Specifications and/or design details may change without prior notice.



SoftBank Robotics Whiz

Dimension (mm)	474 (L) x 455 (W) x 653 (H)
Weight (excluding battery)	30 kg
Vacuum cleaning coverage	500 m ² / hour
Continuous operation	3 hours (normal mode)
Battery charging time	4 hours
Max. speed	1.8 km / hour max
Rated output	29.4 V / 8 A x 2 slots
Safety features	LIDAR, 3D camera, impact sensor, anomaly detection



GERMii UV-C for Whiz Modules

Pathogen mitigation using proven UV-C germicidal irradiation technology

Modules included	Floor and Air fittings
Treatment process – floor	Exposes floor to a narrow beam of UV-C light
Treatment process – air	Trap and kill microscopic pathogens in a low pressure chamber (post HEPA filter) of exhausted air which is irradiated with 10 watts of UV-C at a distance of 10mm
Effectiveness	Destroys the DNA of pathogens, including COVID-19
Efficacy level	>2 seconds and 99.99% effectiveness
Running costs	>\$1 per day
UV-C lamp hours	6,000 per lamp
Air plate size	45cm x 45 cm x 15cm 1.3kg
Floor plate size	37cm x 25cm 1.2kg
Design	Mirrored stainless steel construction
Lamp run time	5 hours for both modules
UV-C lamp warranty	Annual maintenance provides ongoing servicing or replacement

CUTTING EDGE AI FLOOR CLEANING WITH UV-C STERILISING TECHNOLOGY



GERMii UV-C for Whiz

ASSURANCE IN A SAFE ENVIRONMENT

Whiz

GERMii
UV-C PATHOGEN MITIGATION

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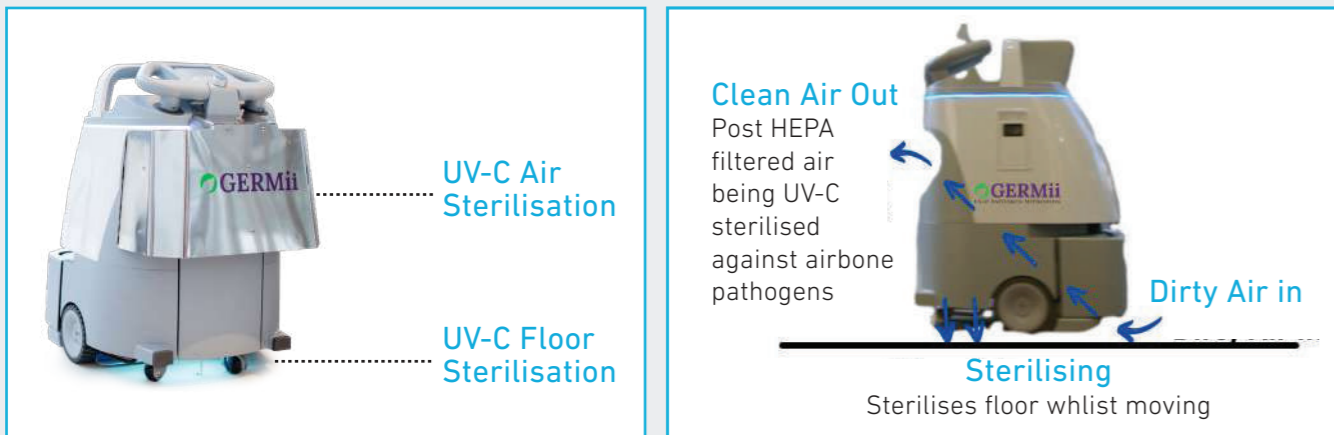
Whiz is an AI vacuum cleaning robot of SoftBank Robotics.
GERMii UV-C, an add-on device, dedicated for SoftBank Robotics' AI vacuum cleaning robot, "Whiz."

CUTTING EDGE AI FLOOR CLEANING WITH UV-C STERILISING TECHNOLOGY

Assurance in a safe environment

GERMii Australia is partnering with SoftBank Robotics to introduce and engineer innovative products and technologies in the field of cleaning and sterilisation to provide best in class pathogen mitigation automatically via the recent integration into Whiz, the world-leading autonomous cleaning robot. The 2-in-1 robotic solution is designed to complement existing protocols, resulting in higher cleaning productivity and efficacy.

The Science behind GERMii UV-C for Whiz



The Science behind GERMii UV-C for Whiz involves two-stage process;

1. Treatment of the floor surface;
2. Trap and kill of microscopic pathogens in a low pressure chamber (post HEPA filter) of exhausted air which is irradiated with 10 watts¹ of UV-C at a distance of 10mm.

¹0.15 watt kills viruses per Fluence study.

Product Features

User-Experience Driven

EASY TO USE

Powered by BrainOS, this product can be used straight out of the box.

SAFE FUNCTIONALITIES

Automatically avoids people, obstacles (incl. glass panels), walls, cliffs, and other hazards.

REAL-TIME ALERTS

Notifications can be cleaning routes are completed, or it needs a hand.



UV-C AIR STERILISATION

Trap and kill microscopic pathogens in a low pressure chamber (post HEPA filter) of exhausted air which is irradiated with 10 watts of UV-C at a distance of 10mm.

EFFECTIVENESS

Destroys the DNA pathogens, including COVID-19.

UV-C FLOOR STERILISATION

Exposes floor to a narrow beam of UV-C light.

4 sharings of GERMii UV-C for Whiz



EFFECTIVENESS

- UV-C is proven to destroy the DNA of pathogens, bacteria, viruses, fungi & mold - including Coronavirus!
- UV-C is classified as a steriliant, unlike disinfectant



TREATMENT PROCESS

- GERMii Robotic treatment involves a two stage process:
- Treatment & cleaning of the floor surface
 - Trap and kill microscopic pathogens in our devices which are irradiated by UV-C



INDUSTRIES

- Public Safety Services
- Healthcare
- Call Centres
- Education
- Aviation & Maritime
- Public Transport Industry
- Hotels



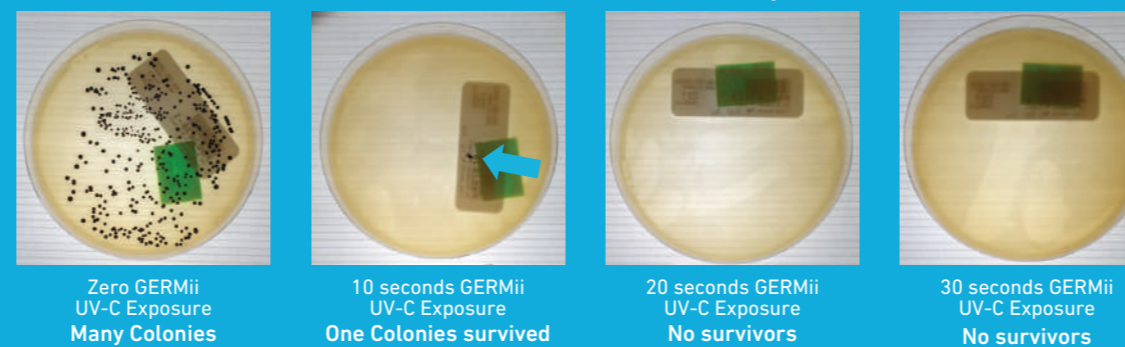
AFFORDABILITY

- GERMii Robotic lessens the gap in the cleaner workforce
- Approx. running cost of \$1.00 per day with consumables - That's affordable!

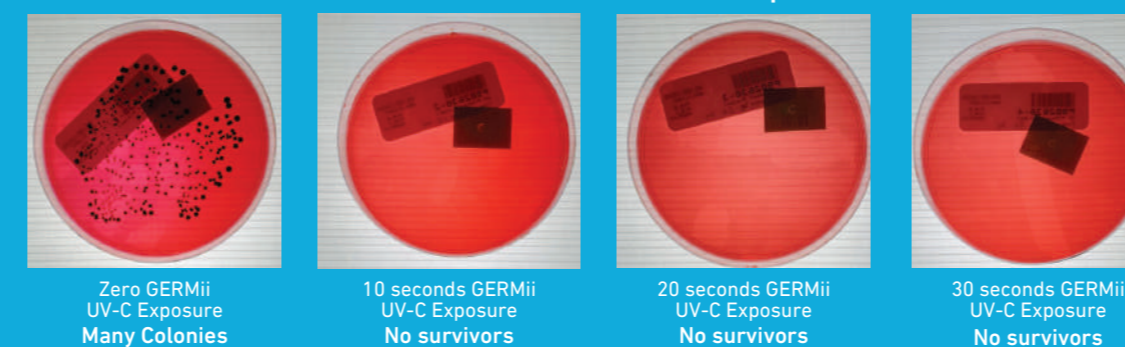
GERMii UV-C Sterilisation Technology delivers;

1. Up to 99.9% of germs eradication
2. UV-C Light rapidly inactivates ALL viruses, including Covid-19
3. Kills 100% of the Golden Staph¹ bacteria plate sample within 2 seconds
4. Irradiated 10 watts² of UV-C at a distance of 10mm

Golden Staph Laboratory Tests with various exposure times to GERMii UV-C Handheld Lamp



Salmonella Laboratory Tests with various exposure times to GERMii UV-C Handheld Lamp



Analytical Results		Control	1 second	2 second	3 second	4 second		
Compound/Analyte	Method	LOR	Units	P952477/1	P952477/2	P952477/3	P952477/4	P952477/5
CP Staphylococci	M18.1 - A5 5013.12.1	100	CFU/Plate	'319	'192	'0	'0	'0
Salmonella Count*	M16.6 - M16.6 Salmonella Count - Spread Plate	100	CFU/Plate	'48	'26	'11	'2	'0

¹Golden Staph is commonly recognised in the health industry as the most stubborn bacteria and causes huge infection problems in hospitals.

²0.15 of watts kills viruses per Fluence study.

CASE STUDY : BIC – GOVERNOR PHILIP TOWER IN SYDNEY, AUSTRALIA



Objectives

BIC and Dexu Group are investing in technology to get commercial tenants back into buildings safely, post COVID-19.

GERMii equipment deployed



UV-C Handheld



Whiz autonomous vacuum floor cleaning robot