

Australian designed and manufactured UV-C technology + SoftBank Robotics
Whiz Cleaning Robots

November 2021



EXECUTIVE SUMMARY



GERMii are a technology and sciences company, specialising in the design, manufacture and application of proven **UV-C sterilisation** technology.

Our technology will **change** the way organisations approach the fight against not only COVID-19, but pathogens across the board.

With **Government award winning** technology and a growing tier one partner network, GERMii is well placed to fast-track production and support it's growing Australian and overseas market.

Backed by a team of highly **experienced** individuals in the areas of UV-C technology, customer service and support.

Delivering return to workplace outcomes



GERMii's technology brings people back to work faster, safer and increases productivity with a short return on investment payback period of months, not years.

Environmentally friendly

By using GERMii devices, you decrease the use of chemicals, plastic bottles and other waste, helping the planet.

Using the power of the sun, not chemicals





MARKET FIRST, CHEMICAL FREE STERILISATION
DELIVERING EFFICACY, CONFIDENCE

With **Australian engineering and manufacturing** and **NSW Government Award** winning Technology that neutralises all known pathogens, including COVID-19

Chemical free

Experience

We built our first UV-C dehumidifiers in 1995.

- Over 15 years experience in water sterilisation in challenging and highly precise conditions including civic projects.
- We reacted within days of the 2020 global travel ban, by designing and building our first machines to sterilise without chemicals.
- Deployed in the Victoria Ambulance's COVID-19 Centre.
- Custom fabricated UV-C chambers for infections disease control.
- Developed handheld battery powered units for rapid deployment and continuous duty.
- 6 of Australia's tier one facilities management and also cleaning contract companies have already partnered with GERMii to deploy our UV-C and Whiz Robots including



The Facts of UV-C



4.6 billion years ago the earth's atmosphere was formed. UV-A and UV-B pass through the atmosphere but UV-C does not, as a result viruses, bacteria and other pathogens did not evolve resistance to UV-C.

What is UV-C

Ultraviolet light (UV) rays are naturally occurring from the sun, but also found in man-made products such as welding torches and growth lamps. The three types of UV are UV-A, UV-B and UV-C. It is UV-C which can be harnessed into man-made lighting products which inactivate pathogens (e.g. kills bacteria, viruses and fungi).

How do GERMii products work

GERMii technology transforms UV-C into a narrow and powerful beam of light. The selected bandwidth of the UV-C used by GERMii is the most lethal for viruses, bacteria and pathogens. The UV-C light is lethal as applied since it destroys the DNA and RNA of the viruses, mould, bacteria or fungus.

Light vs Chemicals

GERMii is Australia's first alternative to **chemicals and harsh antivirals** delivering safer, environmentally friendly and **lower cost** of ownership for all customers around Australia and internationally

From offices to gyms, ambulances to accommodation, hospitals to airports



UV-C Handhelds



UV-C Robotics

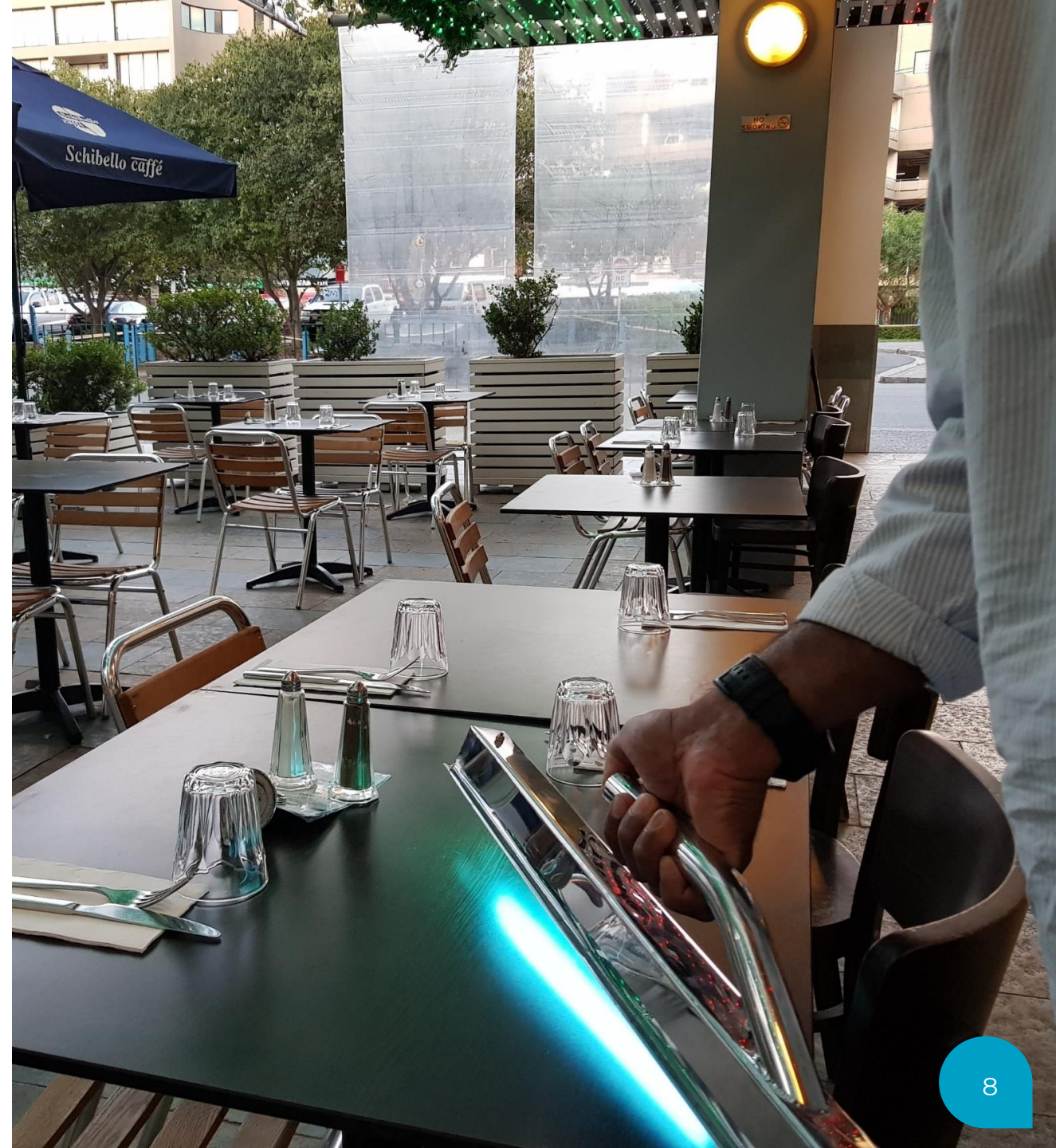


UV-C Chambers



UV-C Air Con

TGA exempt, safe to use, fast, 95% lower running cost over chemicals



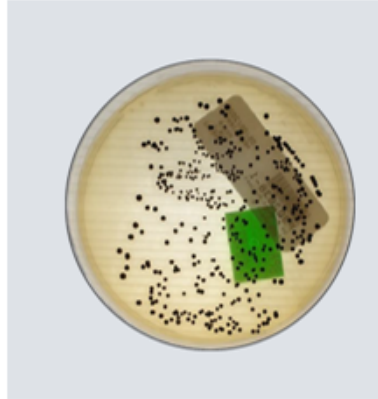
Approvals received

- October 2021, NEA
- NITI AYOOG submitted, pending approval
- Australian radiation protection and nuclear safety agency compliant
- Boeing approval for flight deck and main cabin
- Newcastle University Hunter Medical research Institute COVID-19 efficacy
- Changi Airport proof of concept clinical trials
- Resorts World Singapore and Manila proof of concept trials
- TGA Australia exempt
- Royal Flying Doctors Australia endorsed and part of standard operating procedures

Beyond COVID-19

GERMii UV-C doesn't only eliminate COVID-19

Independent testing successfully conducted by Symbio
Laboratories, Perth
1st October 2020



There is no microbe that can resist the treatment of GERMii UV-C.



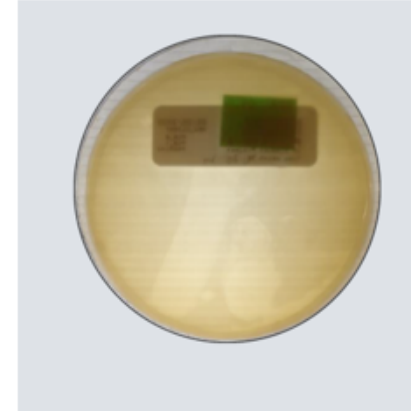
UV-C properly administered using our devices is highly effective against all known mold, fungi's, bacteria and viruses.



This includes Golden Staph, super bugs, influenza and blood pathogens.

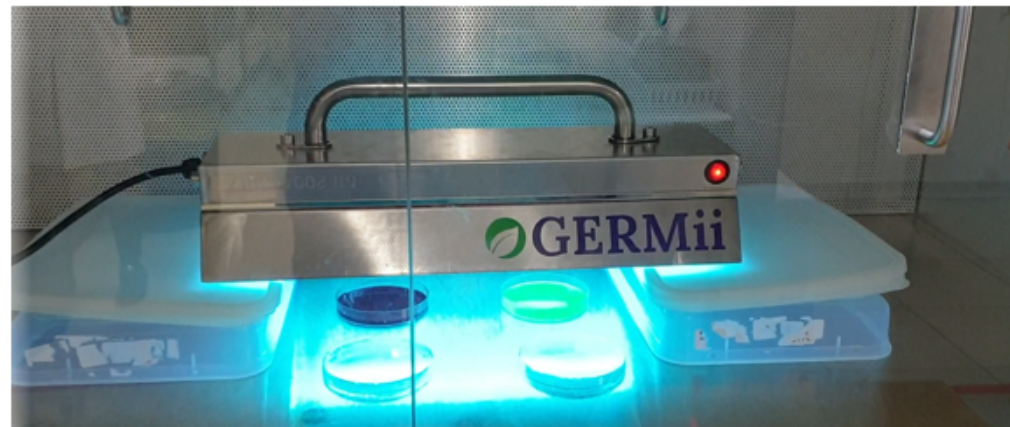


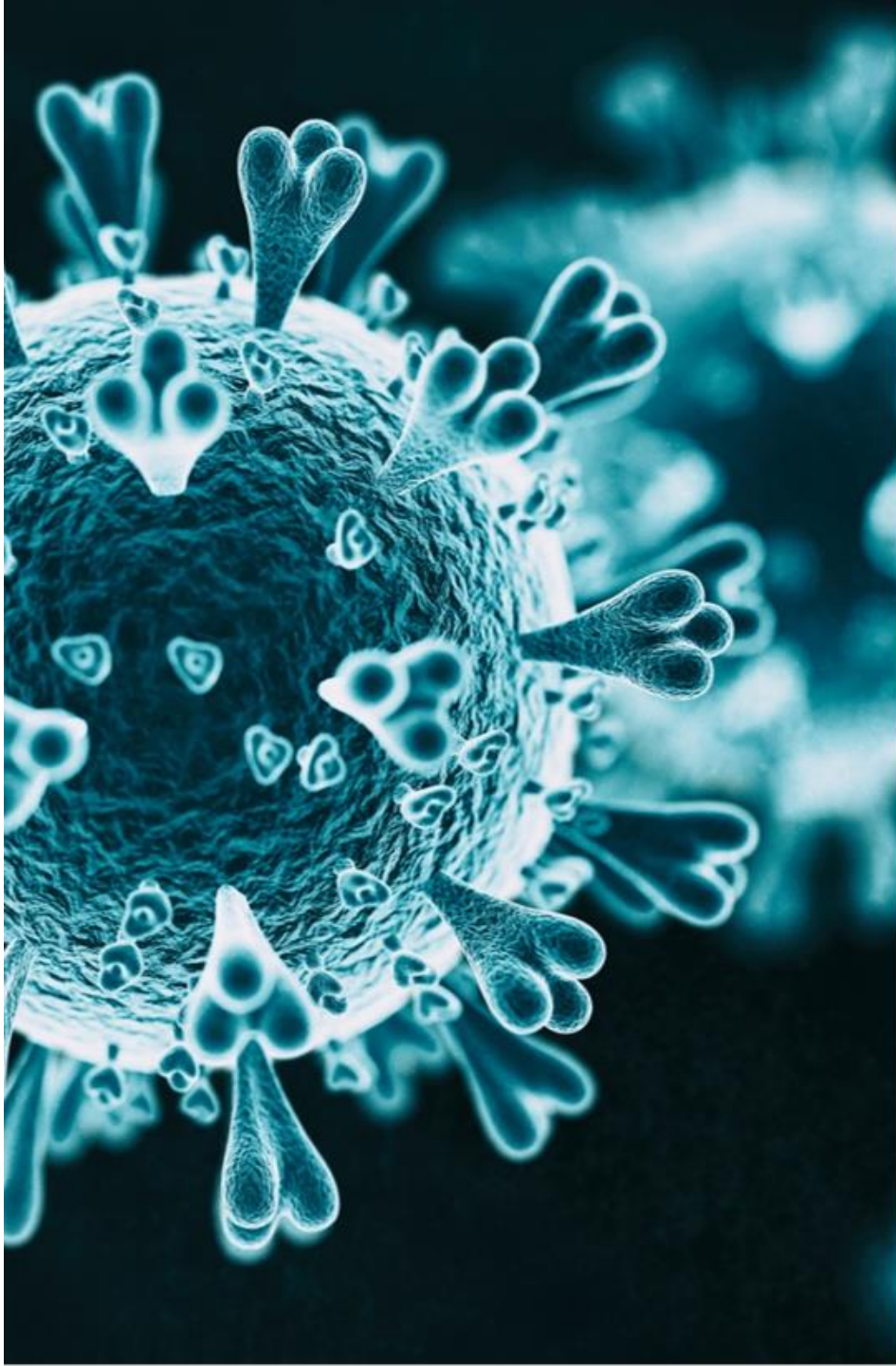
We are in early stages of testing variations of our technology to suit industry specific applications such as fresh food and produce industry, aged care accommodation, hospitality, aircraft and transport



Zero GERMii UV-C exposure
392 Colonies

**Zero survival after 1-2
seconds**





Beyond COVID-19

GERMii UV-C doesn't only eliminate COVID-19

There is no microbe that can resist the treatment of GERMii UV-C. UV-C properly administered using our devices is highly effective against all known mold, fungi's, bacteria and viruses.

This includes Golden Staph, COVID-19, super bugs, influenza and blood pathogens.

By exposing pathogens on surfaces and air, even air systems in offices, hospital ventilation systems to UV-C via modules, we can reduce or eliminate surface or airborne pathogens including COVID-19 to keep people safer.

Chemicals

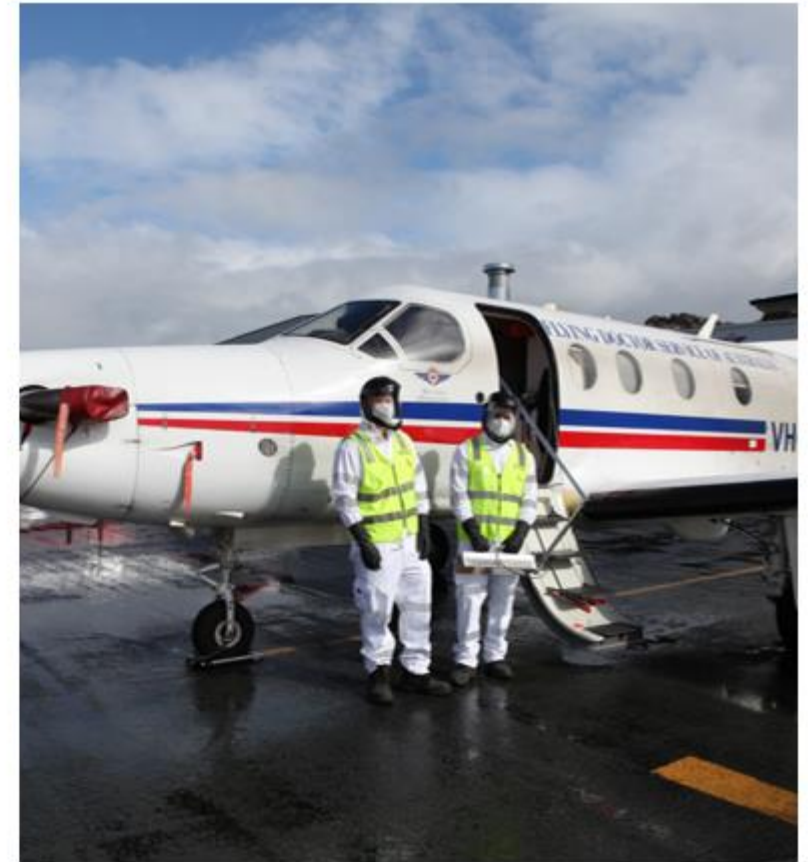
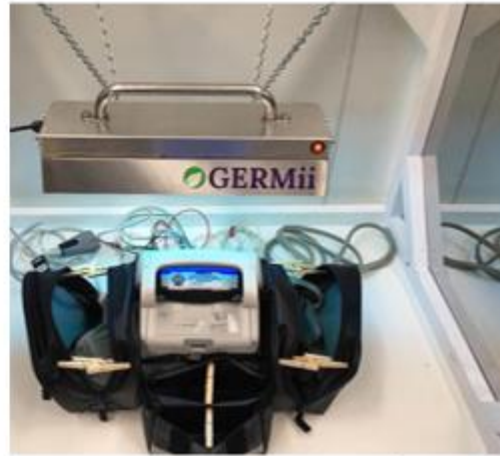
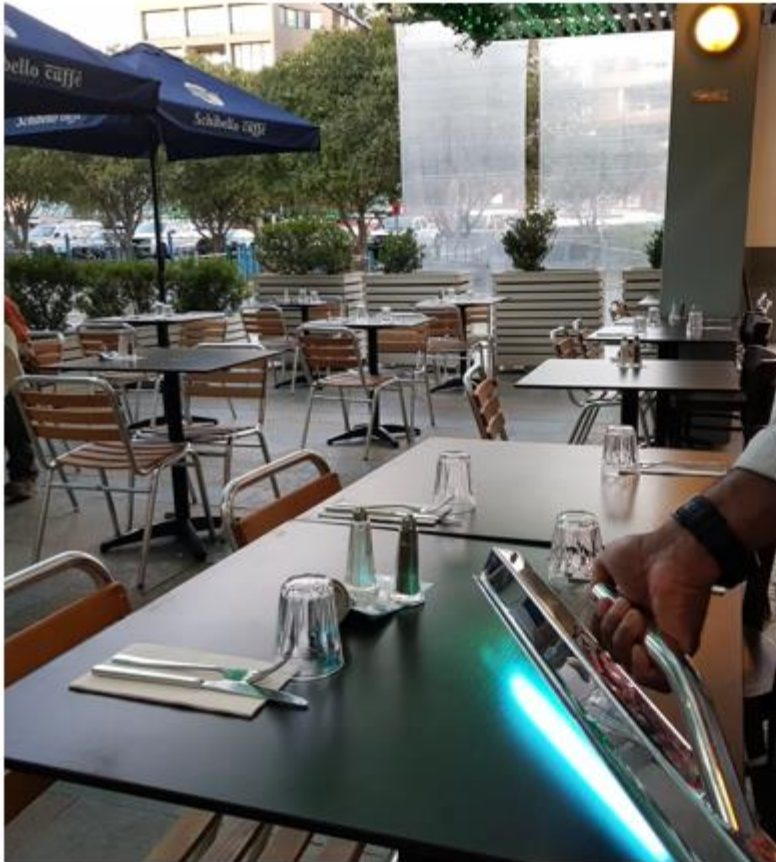
Chemicals and harsh antivirals are only as effective with total toxic saturation, they're costly and there's diminishing public trust in the long-term effect on people.

\$5 per litre vs 2c per day UV-C

You can't overdose on light

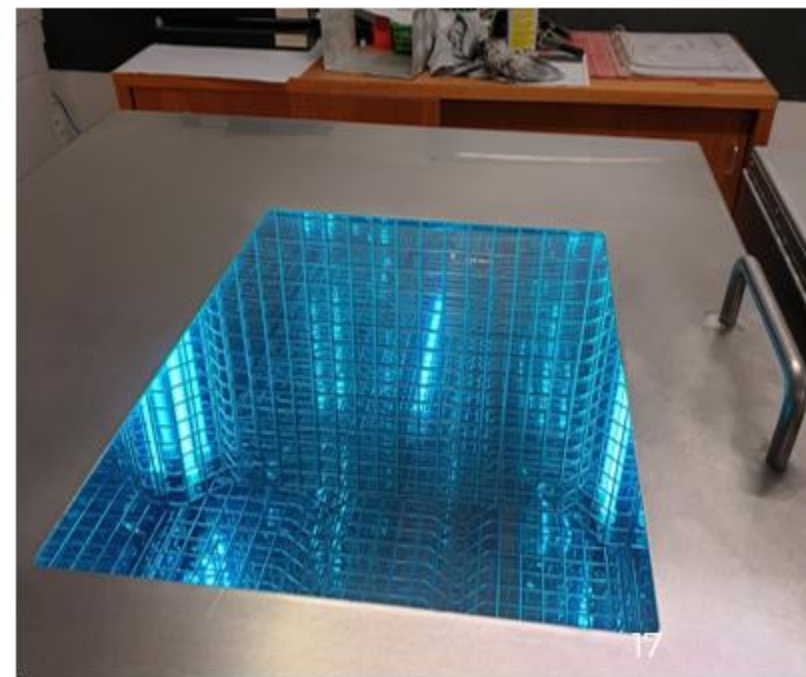


Our Company





GERMii
UV-C PATHOGEN MITIGATION



Market Trends



GERMii are pioneers and market leaders in an emerging technology that has far reaching applications not only in tackling COVID-19, but in a number of sectors including agricultural weed control

First to market



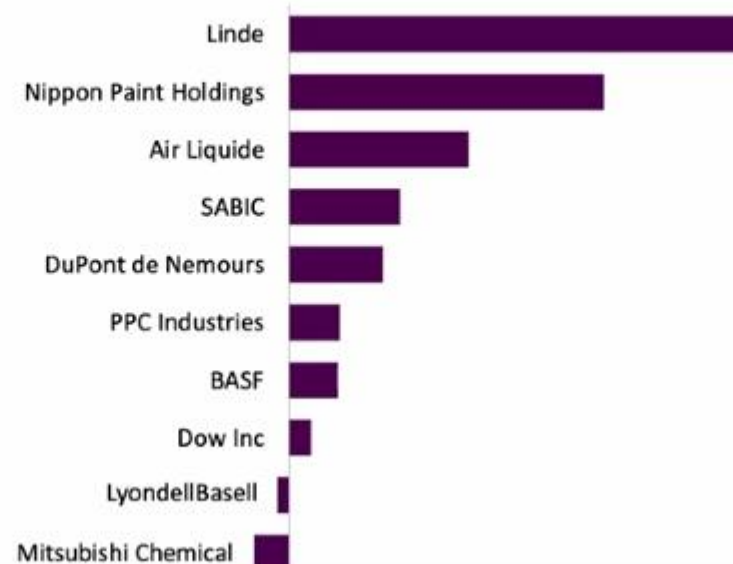
In a very large Australian market, we have first to market advantage and are already establishing international reach into Singapore and India

India, Singapore with UK, US next



Spike in antiviral and disinfectants spend, chemical company market cap growth during COVID-19 - [link](#)

Market capitalization change in billion U.S. dollars



Our strategic partnership with global leader SoftBank Robotics opens an international market for Robotics in excess of tens of million of dollars

\$25m based on 50% retrofit of currently deployed robots

COLES Head Offices Tooranga



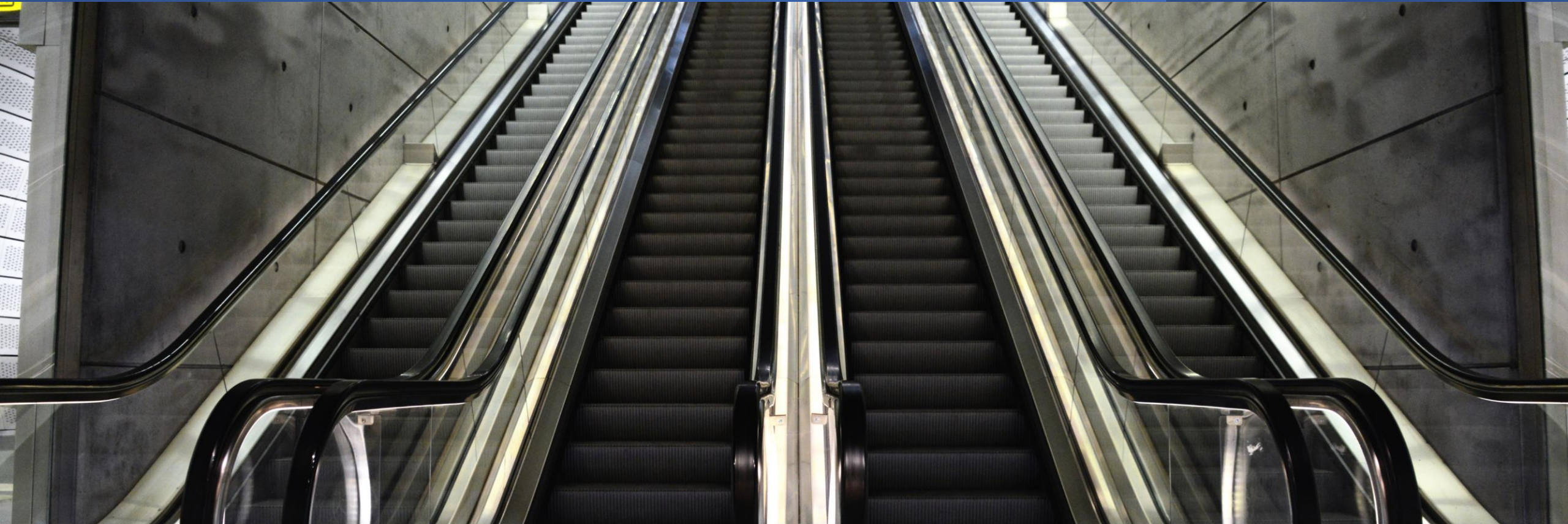
Coles Parent company



Australia's premier retailer, 107,000 employees in Australia, 30.8b annual revenues







something new is coming



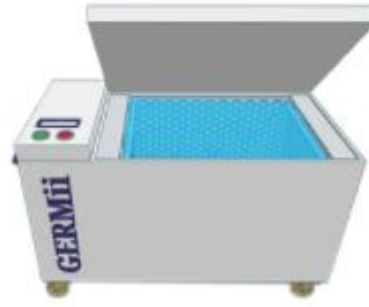
GERMii RANGE



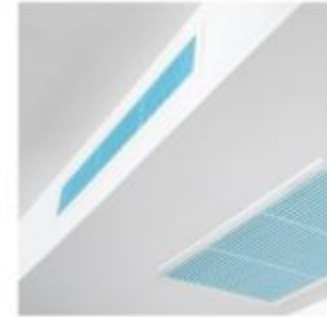
UV-C Handhelds



UV-C Robotics



UV-C Chambers



UV-C Air Con

UV-C TO TACKLE COVID-19 | [SOFTBANK ROBOTICS WHIZ](#)

FRONTLINE PRODUCTS



Whiz
UV-C Enabled cleaning robots



Sabre
UV-C Handhelds

The Technology



Sabre Handhelds (Germicidal Irradiation Lamps) range of products

- The Sabre range are fundamentally the safest hand held device available on the market today.
- Our design is to use low energy UV-C delivered at close proximity to sterilise any infection on any type of surface in seconds.
- Ultra low operating costs in cents per day.
- Robust construction with ease of servicing.



© SoftBank Robotics Corp

GERMii products are available as an outright purchase or financed

Robotics - WHIZ

UV-C Enabled

- Partnering with the Global giant SoftBank Robotics, we have created and delivered the world's first and genuinely comprehensive air and floor sterilisation system.
- These robots can be deployed to hospitals, aged care centres and any site within a week of order
- <https://www.youtube.com/watch?v=rBUsSvQ0i8c>



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.

Chambers

Our Germicidal Irradiation Chambers are powerful and highly efficient units, designed to disinfect a wide range of items without the use of chemicals, allowing extended, all-day use or peace of mind in reuse.

- One per floor in Government, Corporate offices, Hospitals, Airports
- UV-C autoclaves
- High efficiency, sterilisation within minutes compared to hours
- Low power consumption
- Currently deployed to RFDS already and custom built to order



Air Conditioning **Return vent module technology**

- Solving air quality issues and airborne pathogens such as COVID-19
- Allowing for low-cost retrofitting into any existing or new AC system
- Low cost to run - 35c per day per vent
- Reduces workload and maintenance cost of existing AC systems
- Portable - the vents can be removed and transport to a new site if needed
- 30 mins deployment per vent
- Custom built to fit standard or unique size return vents



Air Conditioning - Return vent module technology



By installing GERMii UV-C modules into existing air condition systems or vents, any bacteria, pathogens or microorganisms that were not eliminated by the HVAC system will be treated with UV-C light, creating a redundancy effect before air is circulated back into the building.

Our systems are flow rated to maintain negative and positive pressure with a system over multistorey buildings and designated areas.

- Inbuilt modular units
- Australian made and engineered as an add-on to existing systems
- Standalone floor modules in high traffic areas where retro fit is not viable and speed of deployment is required.
- Suited to major shopping centres, offices, aged care, airports and hospitals
- Australia wide deployment



Media and Awards

Recent Press Coverage

Media coverage lately

We have had multiple press coverage launches in Australia but also Singapore over the last week, which you can use as needed.

<https://itwire.com/business-it/softbank-robotics-singapore-and-germii-launch-a-disinfection-solution-to-sanitise-surfaces.html>

<https://www.hospitalhealth.com.au/content/technology/sponsored/whiz-and-germii-team-up-for-sanitised-facilities-1172771593>

<https://govinsider.asia/future-of-work/how-tech-can-ease-the-cleaning-industrys-manpower-crunch-robots-germii/>

<https://www.incleanmag.com.au/softbank-robotics-germii-launch-ai-powered-cleaning-robot/>

<https://mysecuritymarketplace.com/av-channel/mysectv/>

itWire

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Home / Business IT
Softbank Robotics Singapore and GERMii launch a disinfection solution to sanitise surfaces
Tuesday, 01 June 2021 12:45
Softbank Robotics Singapore and GERMii launch a disinfection solution to sanitise surfaces

14 Shares
By Kent Anthony Mendica



WEBINARS ONLINE & ON DEMAND

EVENT INVITE: Should TV move: 600 MHz, the long talk, and the government's media reform green paper
Telsoo is inviting viewers to watch and listen media and...

Examining best practice to scale and operationalise AI
AI for Business Summit 3-5 August 2021 Sydney | Australia...

Six ways to use LinkedIn to generate leads. Free virtual event.
Free virtual event: Learn six ways to use LinkedIn to...

WEBINAR INVITE: Synology SaaS Backup

MYSECURITY MARKETPLACE
LOGIN REGISTER PROMOTE YOUR BRAND SEARCH THE MARKETPLACE

RESOURCES PRODUCTS EVENTS COMMUNITY NEWS APP \$0.00



HOME / RESOURCES / MYSEC.TV / ROBOTS DEPLOYED AGAINST COVID-19
ROBOTS DEPLOYED AGAINST COVID-19
Tech & Sec Weekly



IN THIS VIDEO

We switch to our Drones & Robotics channel - DrastixNews.com and speak with Kenshi (Kent) Yoshida, Chief Business Officer at SoftBank Robotics Asia Pacific and Harold Thomas Van Halteren, CEO at GERMii.

To help curb the spread of the #COVID19 virus (SARS-CoV-2) in commercial facilities across the country, global #robotics company, SoftBank Robotics has partnered with Australian pathogen mitigation company GERMii to launch a sterilisation #robot, Whiz, that uses #uvtechnology to kill #pathogens both on the floor and in the air.

#Whiz works autonomously, allowing cleaning staff to focus on other higher value tasks while removing the cleaning staff of laborious large-scale cleaning and delivers

FINANCIAL REVIEW
PLATINUM 70 YEAR

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Companies Healthcare And Fitness Coronavirus pandemic Print article

Australian-made UV light devices could help businesses reopen faster



As [Australian infection rates](#) of COVID-19 plummet and [business pushes for a return to normal](#), a Perth-based business created to try to save jobs may enable people to get back to work more quickly and safely.

GERMii was created in February, when

Hannah Wootton
Reporter

JLL Australia

National contract

- 3-year Synergy agreement signed June 2021
- Properties under management: 10,000 + Australia only
- JLL actively promote GERMii's products today, nationally



Finalists

1 of 4 from 500+ submissions



Awards night and winners announced, 1st December

Expanding our Robotics leadership



Innovation Districts Challenge Two: Recover

Economic resilience R&D solutions



Awards NSW Government Innovation Districts Challenges Winner 2021

- 9th June, GERMii were recognised and presented with a NSW Government Innovation Award and funding grant to fast-track production and development of our market first UV-C technology.

Innovation Districts Challenges - winner

- The Innovation Districts Challenges are designed to accelerate the commercialisation of research products that address the impacts of COVID-19 by businesses in partnership with universities and CSIRO (Commonwealth Scientific and Industrial Research Organisation) in NSW.
- Challenge themes align with the NSW Government 'Respond, Recover and Reform' approach to COVID-19.
- GERMii was presented with an award as a district finalist and one of the winning submissions, by the NSW Treasury and Minister. Out of a great many companies, a very small number were chosen as winners across the state.
- We were chosen because our Australian engineered and locally manufactured UV-C technology can kill COVID-19 in 1-2 seconds on the floor, and in the air.



Every sector,
unlimited
opportunities for
replacing chemicals
with UV-C
handhelds,
chambers, AC and
robotics

**If it has to be
sterilised, it must be
GERMii UV-C**





Summary

As an Australian company, we are immensely proud of being recognised in the market as a pioneer in UV-C and germicidal irradiation.

We can change the way organisations fight COVID-19, by reducing chemical use, slash costs, eliminate COVID-19 and more, fast, and make the world a safer place. And we manufacture in Australia, so we'll drive local jobs and investment.

Our recent NSW Government Innovation Award helps us to upscale production but more importantly, get recognition for Australian manufactured technology that can eliminate pathogens, without the need for ongoing harsh chemicals, fogging and antivirals.