THE NEW ERA OF SMART CLEANING



PROTECTION FROM THE HIDDEN AND THE INVISIBLE





The New Era of Smart Cleaning

Protection from the hidden and the invisible

Traditional and manual cleaning protocols alone can no longer efficiently provide comprehensive protection needed to combat life-threatening and infectious diseases, according to WHO, fomite transmission is a likely infection route and is caused surface contamination by "hidden" dusts (i.e. pollen, mold) and "invisible" pathogens (bacteria, virus).

Avalon SteriTech is partnering with SoftBank Robotics to develop innovative products and technologies in the field of cleaning and bio-decontamination, where bio-decontamination capabilities can now be integrated into Whiz, the world-leading autonomous cleaning robot. The 2-in-1 robotic solution aims to complement existing protocols, resulting in higher cleaning productivity and efficacy.

AI-Powered Disinfection and Cleaning Revolutionary Solution to Biosafety and Hygiene





Word-class AI Disinfection and Cleaning

- Best-in-class autonomous-driving Al for route design and obstacle avoidance
- Disinfection and vacuum cleaning 2-in-1



Easy to Set Up, Easy to Use, **Easy to Monitor**

- **User friendly** OS allowing for route design and deployment
- **Check route completion** records to provide peace of mind



Dry-mist Spray Technology

- Unique nozzle and pump technology to generate <10 micron disinfection particles
- High material and electronic equipment



24/7 Accessibility and Reliability

- Avoid inconsistent performance caused by human error or spot-cleaning
- Optimize operations and workflow with less effort but a better result

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 sent over-the-air whenever cleaning routes are completed or it needs a hand.



MULTI-ANGLE COVERAGE

Atomising nozzle can be adjusted to target zone, surface or ground bio-decontamination.

RESPONSIBLE SPRAYING

Sprayer will only be activated if Whiz is in operation, preventing excessive use of chemicals.

INTEGRATED PRODUCT DESIGN

Cohesive design with Whiz allows for robust durability and seamless user experience

Science Driven Approach to Environmental Hygiene Research Findings

decrease

in airborne microorganism in indoor environment. This is supported by the positive correlation between floor cleanliness and air cleanliness.1

surface pathogens eliminated

EVICATE™, a Quaternary Ammonium Compound (QAC) formulation developed by Avalon SteriTech, can achieve >99% microbial reduction.2

0% 1,500m²

coverage on a single charge which is more than three

and a half basketball courts.

Autonomous

disinfects and cleans room (20 m³) in <30 min.³

- 1. SoftBank Robotics conducted research in Tokyo, JAPAN to evaluate the effectiveness of Whiz to clean office buildings. The study was conducted across 116 sites.
- 2. Disinfectant was tested in accordance to EN 1276 standard
- 3. Disinfection and cleaning time is dependent on route design for Whiz.

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 m² / 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



Avalon SteriTech G∧MBiT™

Dimension (mm)	389 (L) X 456 (W) x 595 (H)
Gross weight (kg)	23.5
Max. pump pressure	2.1 bars
Tank volume	3 litre
Average run-time	1 hour
Voltage	24 VDC
Rated output	180 W
Noise	70 dBA

Avalon SteriTech Limited

ww.avalonsteritech.com

Tel: +852 3469 1200 | Email: info@avalonsteritech.com

 $Units\ 1511-13\ \&\ 15, Level\ 15, Tower\ II, Grand\ Central\ Plaza, 138\ Shatin\ Rural\ Committee\ Road, Shatin, N.T.\ Hong\ Kong, Shatin, N.T.\ Hong\ Kong, Shatin, Shatin,$