

THE NEW ERA OF SMART CLEANING



Whiz GAMBIT

TAKING CARE OF THE VISIBLE AND THE HIDDEN



The New Era of Smart Cleaning

Taking care of the *visible* and the *hidden*

The intermittent nature of the ongoing pandemic has heightened the need for enhanced cleaning and disinfection protocols. Faced with labour shortage and continuous rise in salaries, forward-looking cleaning companies are increasingly embracing robotics as a means to ensure unwavering, efficient and highly effective cleaning and sanitization practices.

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.

Whiz GAMBIT is also a proud recipient of:

- Innovation Honoree at the CES 2022 Innovation Awards
- International Best in Business Awards by GLOBEE®, SILVER GLOBEE® WINNERS in Best Product | To Combat and Reduce the Impact of COVID-19
- Robotics – Health Products & Services Award at Singapore Business Review Technology Excellence Awards 2021



Product Features User-Experience Driven

EASY TO USE

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

SAFE AND RELIABLE

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 & EASILY CHANGEABLE NOZZLE FOR DRY & WET MIST SPARYING

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

CONSISTENT PARTICLE SIZE IN THE SAFETY RANGE

Precise control of particle size to achieve performance and prevent excessive use of chemicals.

INTEGRATED PRODUCT DESIGN

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





Performance Tested

- ✓ Onsite Microbial Reduction >99%
- ✓ Effectively inactivate >99.99% Coronavirus
- ✓ Effectively kill >99.99% Bacteria & Fungi



3 Buttons Only! Anyone can Operate Seamless Integration into Your Workflow



World-class AI Cleaning and Disinfection

- **Best-in-class** autonomous-driving AI for route design and obstacle avoidance
- Vacuum cleaning and disinfection **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



Patented Spraying Technology

- Advanced spraying mechanism to **generate disinfectant in mist form**
- High material and electronic equipment compatibility



24/7 Accessibility and Reliability

- **Consistent performance** to prevent human error or spot-cleaning
- Optimize operations and workflow with less effort but better results

Science Driven Approach to Environmental Hygiene Research Findings

80%
decrease

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

up to

99.9%
microbial burden eliminated

conducted in SGS simulated environment with comprehensive sampling across ground, table and shelf heights.²

up to

5,400 sq ft
coverage on a single charge

which is more than four and a half badminton courts.³

100%
autonomous

powered by BrainOS®, the award-winning commercial robot operating system from Brain Corp., with easy user interface, route design and deployment.

Reference:

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. Tested by SGS. For details, please refer to SGS Performance Mark.

3. Disinfection and cleaning time is dependent on route design for Whiz Gambit.

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
Rated output	29.4 V/8 A x 2 slots
Safety features	LIDAR, 3D camera, impact sensor, anomaly detection



Avalon SteriTech GAMBIT

Dimension(mm)	389 (L) X 456 (W) X 595 (H)
Max. pump pressure	3.5 bars
Tank volume	2.5 litres
Spray rate ^	2 litres / hour
Voltage	24 VDC
Noise ^	70 dBA
Battery type	Lithium
Gross weight	14.5 kg
Rated Output	296 W
Average running distance#	4,000 m
Operation time ^	100 mins
Charge time ^	160 mins

[#] Operation along with fully charged Whiz.

[^] The specifications are subjected to +/-10% variation.

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