

ORIONSTAR



ORIONSTAR | CLEANIBOT

All-In-One Instant Clean Commercial Cleaning Robot



MAXIMIZE YOUR CLEANING POTENTIAL

Complete the full cleaning process in a single operation

CLEAN FUSION

Self-developed digital-twin simulation platform enables an all-around analysis of multiple cleaning processes to generate valuable insights for technological enhancements of smart cleaning tools.

Automated/manual simulations provide better evaluation of new cleaning strategies and motion control planning.

FLEXIBLE

Verification of the effectiveness of cleaning tools in different simulated scenarios is made available through the digital-twin platform.

REAL

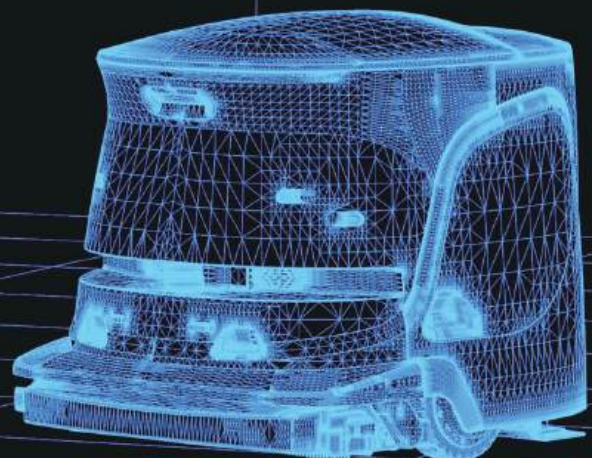
CLEAN FUSION

ACCELERATE

Constantly achieve new technological breakthroughs using high-precision simulation of physical objects.

OPTIMIZE

Provide optimal smart cleaning solutions by combining CLEANFUSION technology, 222 nm UV-C disinfection, and ultra-quiet cleaning performance.



PRODUCT FEATURES



ALL-IN-ONE

Sweep, scrub, vacuum, dust-mop, disinfect, and self-clean all in one



Fully Automated

No manual intervention required, automatically switches cleaning modes based on the environment.



Ultra-Quiet Cleaning

Noise level as low as 55 dB, even on full capacity cleaning mode



Obstacle Avoidance

More than 15 high-precision sensors ensure a safe work environment



Easy Maintenance

Integrated piping design reduces blockages
Modular cleaning tools



One-Click Deployment

Built-in application enables easy deployment and quick activation of cleaning tasks



Efficient

Roller Brush Width: 520 mm
Mop Pad Width: 540 mm/580 mm (optional)



Digital Management

OTA updates
Cleaning reports available



FLEXIBLE

Gradability: 8°
Min. Passable Width: 700 mm



Efficient Coverage for Up to 4,000 m²

Achieve a complete cleaning process in a single cycle, covering all four essential cleaning steps. Fully automated with no need for manual water refills or part replacements, ensuring a hassle-free, maintenance-free cleaning experience.

CLEANING MODES

OrionStar CleaniBot offers various cleaning modes that can be easily switched with a simple touch on the screen, allowing users to customize cleaning based on different floor types and environments. No need to change any cleaning modules or parts, ensuring a seamless, user-friendly experience.



Mode	Nylon Roller Brush	Water Pump	Microfiber Brush	Vacuum	Mop Pad	Recommended Scenarios
Scrub	✓	✓	✓	✓	✓	Ideal for most floor types, delivering optimal cleaning performance.
Power Scrub	✓	✓	✓	✓	✓	Designed for deep cleaning of heavily soiled hard floors.
Dust Mop	✗	✗	✗	✗	✓	Recommended for delicate surfaces like polished or marble floors where quiet is preferred.
Sweep & Vacuum	✓	✗	✓	✓	✗	Ideal for low-pile carpet cleaning.
ECO Vacuum	✓	✗	✓	✓	✗	Quietly cleans heavily dusted hard floors with energy efficiency.
Sweep, Vacuum & Mop	✓	✗	✓	✓	✓	Removes dust, dirt, and debris without using water.
Customized	✓	✓	✓	✓	✓	Cleaning tools can be configured to meet specific cleaning requirements.



Marble



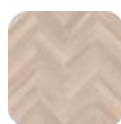
Granite



Epoxy



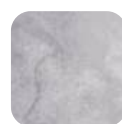
Rubber



Hardwood



Tiles



Concrete



Mixed



PVC



Microfiber Roller Brush

- Suitable for all types of hard floorings
- Recommended for wooden and natural stone floors (hardwood, mixed floors, marble)
- Protects floors while effectively cleaning



Spiral Nylon Roller Brush

- Recommended for hard surfaces (ceramic tiles, concrete)
- Effective in removing stubborn stains



Extra Soft & Dense Nylon Roller Brush

- Customization service available for special flooring types

Ultra-Quiet Cleaning

Crafted with Japanese-imported soundproof materials and featuring a self-developed multi-level noise reduction system, OrionStar CleaniBot operates at an impressively low noise level of just 55 dB in high-power mode – significantly quieter than most industry handheld devices, which typically range from 55-53 dB higher. This makes it ideal for noise-sensitive environments such as hospitals, luxury hotels, and schools.



EASY MAINTENANCE

Waste Water Tank

Strainer
Nanocolloidal silver prevents unpleasant odors

Clean Water Tank

The ozone generator constantly disinfects cleaning water to avoid secondary pollution on the floor

Low-curvature Pipe Design

Allows for easy maintenance & fast removal of blockages

Integrated Piping Design

Streamlines the flow of liquids, minimizing the chances of blockages that can cause system malfunctions and downtime



AI CLEANING

Equipped with 15 different sensors to ensure a 360° safe work environment

Stereo Camera

Cliffs/steps detection

Ultrasonic Sensors

Smart obstacle avoidance

LiDAR Sensor

Up to 10,000 m² map construction capacity
Auto positioning and real-time map updating

Line Lasers

5 cm* distance to the wall and corner to maximize cleaning area

*Note: The robot default is 10 cm, and the manual way is 3-5 cm



Real-time intelligent path planning & smart obstacle avoidance



Remote deployment, Cloud-based maintenance, OTA updates and data reporting



Achieve superior cleaning performance with a 97% water recovery rate. [OrionStar CleaniBot](#) effectively removes stubborn dirt without leaving any water marks, preventing secondary contamination and minimizing the risk of slips and falls.

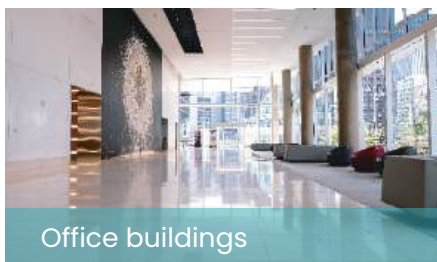
SPECIFICATIONS

ITEMS

Clear Water Tank Capacity	22 L	
Waste Water Tank Capacity	15 L	
Cleaning Efficiency ^[1]	Scrub: 1197 m ² /h Sweep & Vacuum: 1368 m ² /h Dust Mop: 1368 m ² /h	Power Scrub: 1197 m ² /h ECO Vacuum: 1368 m ² /h Sweep, Vacuum & Mop: 1368 m ² /h
Cleaning Path	Zigzag	
Gradeability	Maximum uphill angle: 6°	Maximum operating slope: 8°
Min. Passable Width ^[1]	700 mm	
Braking Distance at Full Speed	30 mm	
Charging Cycle	< 4 h	
Battery Life	Scrub: 4.5 h Sweep & Vacuum: 4.5 h ECO Vacuum: 19.5 h	Power Scrub: 3.5 h Sweep, Vacuum & Mop: 4.5 h Dust Mop: 28 h
Noise Control	Scrub: 55 dB	Dust Mop: 45 dB
Screen Size	10.1 inch	
Weight	70 kg	
Size(length*width*height)	650 mm x 580 mm x 550 mm	
Cleaning Modes	Scrub / Power Scrub / Sweep & Vacuum / Sweep, Vacuum & Map / ECO Vacuum / Dust Mop	

[1] Varies depending on the selected cleaning mode.

APPLICATIONS



Office buildings



Hotels



Schools



Hospitals



Shopping Malls



Traffic Centers

CERTIFICATES

ISO 9001, CE, FCC, UL, PSE, TELECOM, CB, IEC, and RoHS

ORIONSTAR ROBOTICS

Born for truly useful robots



INTRODUCTION

OrionStar, founded in 2016, is a global leader in Large Language Model-Powered Service Robotics. Leveraging cutting-edge AgentOS and advanced voice-interaction technology, we develop robots to streamline repetitive tasks and facilitate human-robot collaboration.

We have shipped over 60,000 robots to more than 60 countries and regions across the catering, retail, warehousing, and manufacturing sectors. Our service robotics solutions are co-developed with global partners on our open RobotOS platform, ensuring ease of use, intelligent performance, high efficiency, and cost-effectiveness.

Guided by our vision "Born for truly useful robots", OrionStar is redefining the industry of service robotics, seamlessly integrating new AI technology into daily life to make the world smarter.

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