

**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.

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

**FLEXIBLE**

**REAL**

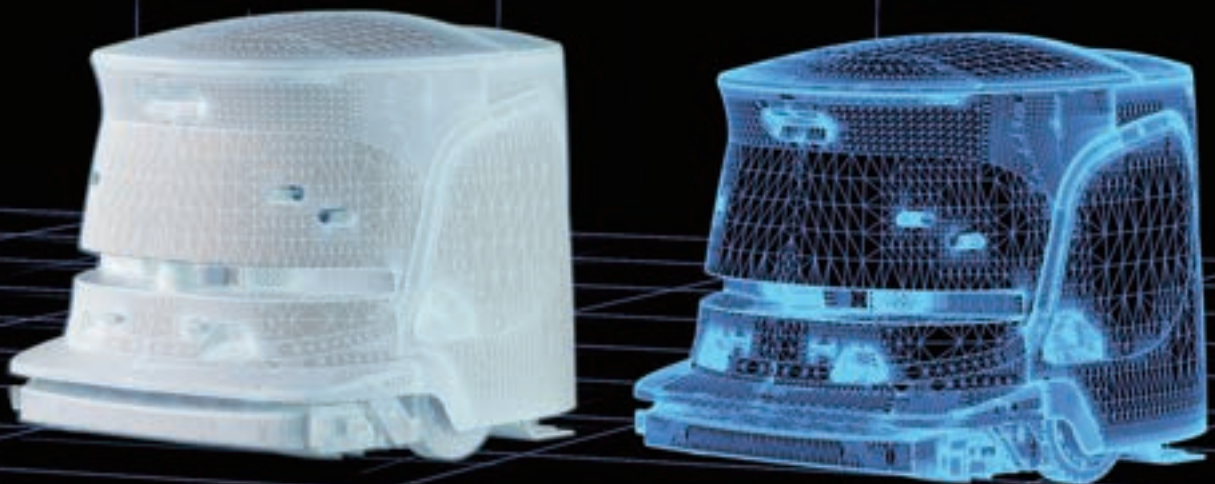
**CLEAN FUSION**

**ACCELERATE**

**OPTIMIZE**

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

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 m<sup>2</sup>

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.



- 
**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 55-83 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 m<sup>2</sup> 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



Auto Path Planning

Real-time intelligent path planning & smart obstacle avoidance



Digital Management

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



Ultra-efficient water recovery - 97%

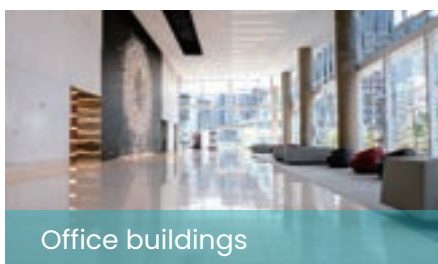
Achieve superior cleaning performance with a 97% water recovery rate. [OrionStar CleaniBot](#) effectively removes stubborn dirt without leaving any water marks, preventing secondary contamination and minimizing the risk of slips and falls.

# SPECIFICATIONS

ITEMS		
Clear Water Tank Capacity	22 L	
Waste Water Tank Capacity	15 L	
Cleaning Efficiency <sup>[1]</sup>	Scrub: 1197 m <sup>2</sup> /h Sweep & Vacuum: 1368 m <sup>2</sup> /h Dust Mop: 1368 m <sup>2</sup> /h	Power Scrub: 1197 m <sup>2</sup> /h ECO Vacuum: 1368 m <sup>2</sup> /h Sweep, Vacuum & Mop: 1368 m <sup>2</sup> /h
Cleaning Path	Zigzag	
Gradeability	Maximum uphill angle: 6°	Maximum operating slope: 8°
Min. Passable Width <sup>[1]</sup>	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 & Mop / ECO Vacuum / Dust Mop	

[1] Varies depending on the selected cleaning mode.

# APPLICATIONS



# 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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