ONE S55

All-in-One InstantClean
Commercial Cleaning Robot

MAXIMIZE YOUR CLEANING POTENTIAL

PRODUCT FEATURES

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

Ultra-Quiet Cleaning
Noise level as low as 55dB@1m even on full capacity cleaning mode

Efficient
Cleaning Width: 520mm
Cleaning Speed: 1200-1800m²/h

Easy Maintenance
Integrated piping design reduces blockages Modular cleaning tools

AIoT
Automatic elevators & gates entering & exiting

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

Flexible
Gradability: 8°
Min. Passable Width: 800mm

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

Digital Management
OTA updates
Cleaning reports available

CLEANFUSION

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

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

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

FLEXIBLE
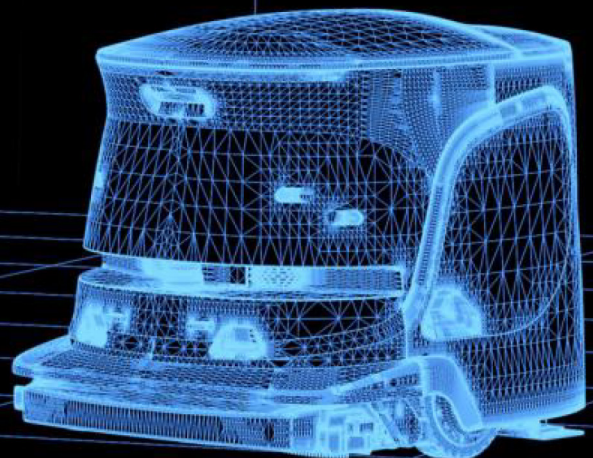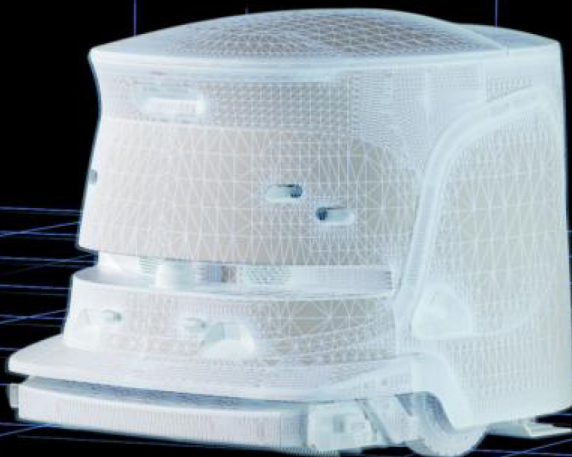
REAL

CLEANFUSION

ACCELERATE

OPTIMIZE

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

Provide optimal AI cleaning solutions with the use of CleanFusion and iKitbot's proprietary garbage detection algorithm.
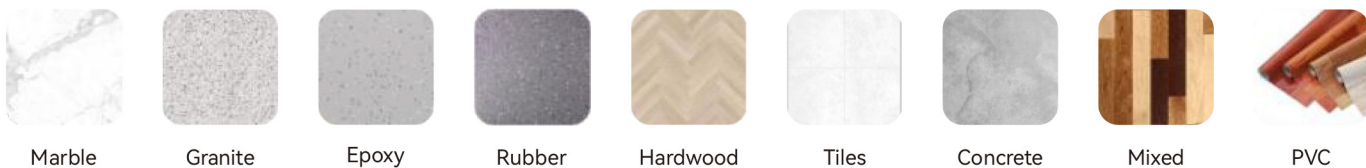
CLEANING MODE

ONE S55 is equipped with different cleaning modes that users can choose from depending on their cleaning needs. Users can assign different cleaning modes for various work zones.

Modes	Nylon Roller Brush	Water Pump	Microfiber Roller Brush	Vacuum	Mop Pad	Scenarios
Scrub	✓	✓	✓	✓	✓	Standard cleaning for most types of flooring. Best cleaning results.
Power Scrub	✓	✓	✓	✓	✓	Suitable for cleaning heavily soiled hard floors.
Dust Mop	✕	✕	✕	✕	✓	Delicate polished floors, marble floors, noise control required.
Sweep & Vacuum	✓	✕	✓	✓	✕	Applicable for low pile carpet.
ECO Vacuum	✓	✕	✓	✓	✕	Ideal for quietly operating and cleaning heavily dusted hard floors.
Sweep, Vacuum & Mop	✓	✕	✓	✓	✓	Dust, dirt and debris removing without water.
Customized	✓	✓	✓	✓	✓	Cleaning tools can be configured differently to meet various cleaning demands.

Marble   Granite   Epoxy   Rubber   Hardwood   Tiles   Concrete   Mixed   PVC

Microfiber Roller Brush .... Suitable for all types of hard floorings.

Spiral Nylon Roller Brush .... Recommended for wooden and natural stone floors, including hardwood, mixed floors, and marble. It helps protect the floors while effectively cleaning them.

Extra Soft & Dense Nylon Roller Brush .... Recommended for cleaning hard surfaces such as ceramic tiles and concrete, and is effective in removing stubborn stains from the surface.

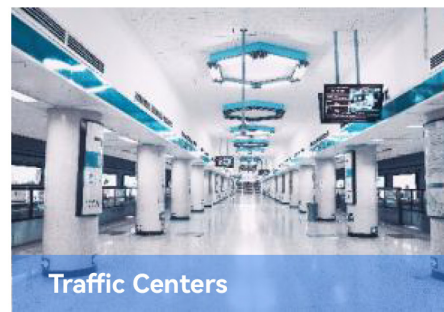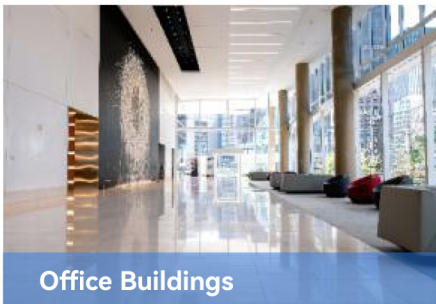**Custom Roller Brush** .... We provide customization service for special flooring types to take better care of your floor.

SPECIFICATIONS

ITEMS	
Clear Water Tank Capacity	22L
Waste Water Tank Capacity	15L
Cleaning Efficiency[1]	1200m²/h(Scrub Mode)/ 1800m²/h(Dust Mop Mode)
Cleaning Path	I-shape or rectangular
Gradeability	8°
Min. Passable Width[1]	800mm
Braking Distance at Full Speed	30mm
Charging Cycle	2-3h
Battery Life	4h (Scrub Mode)/ 8h(Dust Mop Mode)
Noise Control	60dB(Scrub Mode)/ 45dB(Dust Mop Mode)
Screen Size	10.1 inch
Weight	70KG
Size (length*width*height)	650mm*580mm*550mm
Cleaning Modes	Scrub / Power Scrub / Dust Mop/Sweep&Vacuum /ECO Vacuum/Sweep, Vacuum & Mop /Customized

[1]Subject to different cleaning modes.

APPLICATIONS

Office Buildings

Hotels

Schools

Healthcare

Shopping Malls

Traffic Centers

Ultra-Quiet Cleaning

Featuring Japanese ultra silent materials and a self-developed multi-stage noise reduction design, ONE operates at a noise level as low as 55dB@1m even on full capacity cleaning mode. The overall machine noise is lower than the industry standard by 20-30dB.

MAX HOLD dB
55.0

RANGE   RESPONSE   FUNCT

EASY MAINTENANCE

Waste Water Tank

Strainer
Nano colloidal silver* prevents unpleasant odors

Clean Water Tank

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

*Optional upgrades

AI CLEANING

ONE is equipped with 15 different sensors to ensure a 360° safe work environment

Stereo Camera
Garbage detection
Cliffs/steps detection

Ultrasonic Sensors
Smart obstacle avoidance

LiDAR Sensor
Up to 10,000m² map constructing capacity
Auto positioning and real-time map updating

Line Lasers
10cm distance to the wall and corner to
maximize cleaning area

Auto Path Planning

Real-time intelligent path planning & smart obstacle
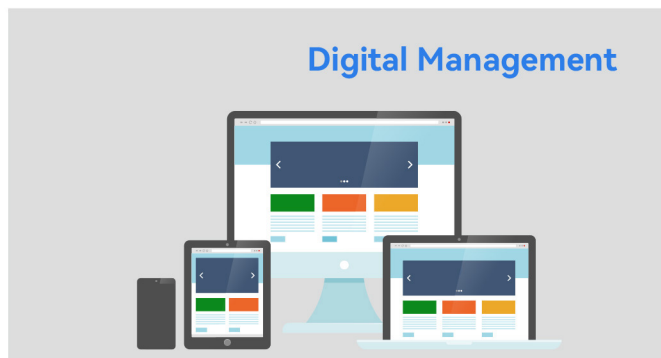avoidance

Garbage Detection

ONE is building an identification library and classifier
model for garbage commonly seen in commercial areas.

AIoT

Automatic elevators & gates entering & exiting.
Automatically returns to charging station upon completion
of tasks.

Digital Management

Remote deployment, cloud-based maintenance,
OTA updates and data reporting.

SUNROBOT