

ikitbot



ONE S55 **PRO**

All-in-One Commercial Cleaning Robot



AI Your Cleaning

Complete the full cleaning process one-time operation

MAXIMIZE YOUR CLEANING POTENTIAL



Enhanced Computing Power, Smarter Navigation

Upgraded core module delivers significantly higher computing performance, enabling faster and more precise positioning, smoother operation, and enhanced stability.

CLEAN FUSION

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.

FLEXIBLE

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

REAL

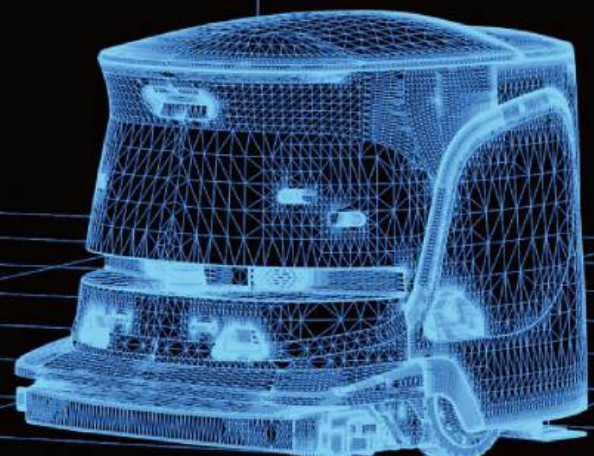
ACCELERATE

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

OPTIMIZE

Provide optimal AI cleaning solutions with the use of clean fusion and proprietary garbage detection algorithm.

CLEAN FUSION



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 even on full capacity cleaning mode



Efficient

Roller Brush Width:520mm
Mop Pad Width:540mm \ 580mm(optional)
Cleaning Efficiency:1197-1368m²/h



Easy Maintenance

Integrated piping design reduces blockages
Modular cleaning tools



Flexible

Gradability: 8°
Min.Passable Width:700mm



Obstacle Avoidance

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



One-Click Deployment

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



Digital Management

OTA updates
Cleaning reports available

NEW



Remote App Control

Easy control via app or browser — adjust tasks, edit maps, and send feedback in real time.

NEW



Suspended Obstacle Detection

Accurately identifies hanging cables and raised edges for safer navigation



Efficient Cleaning Coverage: Up to 4,000m² per Cycle
Large-Scale Mapping Capacity: Up to 50,000m² with a Single Map

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 MODE

The **ONE S55 Pro** 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.



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.

Ultra-Quiet Cleaning

Crafted with Japanese-imported soundproof materials and featuring a self-developed multi-level noise reduction system, the **ONE S55 Pro** operates at an impressively low noise level of just **55dB** in high-power mode—significantly quieter than most industry handheld devices, which typically range from **20–30dB** higher. This makes it ideal for noise-sensitive environments such as hospitals, luxury hotels, and schools.



EASY MAINTENANCE.

Waste Water Tank

Nano-silver coated strainer helps prevent 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

Durable Cleaning Module

One-piece structure, impact-resistant and easy to maintain.



AI CLEANING

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

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

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



Advanced Add-on Kit



Integrated UVC light enhances floor hygiene by supporting surface-level cleaning in hygiene-sensitive environments.



Flexible edge brush ensures close-range cleaning along walls and corners, reducing manual touch-ups.



Removable towing handle enables flexible manual transfer for versatile deployment across locations.



High-resolution external screen transforming the robot into a mobile media terminal for brand promotion, customer guidance, and information display.



Ultra-efficient water recovery-97%

Achieve superior cleaning performance with a **97%** water recovery rate.
The **ONE S55 Pro** 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	22L	
Waste Water Tank Capacity	15L	
Cleaning Efficiency ^[1]	Scrub:1197m ² /h Sweep&Vacuum:1368m ² /h Dust Mop:1368m ² /h	Power Scrub:1197m ² /h ECO Vacuum:1368m ² /h Sweep,Vacuum&Mop:1368m ² /h
Cleaning Path	Zigzac	
Gradeability	Maximum uphill angle:6°	Maximum operating slope:8°
Min. Pas sable Width ^[1]	700mm	
Braking Distance at Full Speed	300mm	
Charging Cycle	< 4h	
Battery Life	Scrub:4.5h Sweep&Vacuum:4.5h ECO Vacuum:19.5h	Power Scrub:3.5h Sweep, Vacuum&Mop:4.5h Dust Mop:28h
Noise Control	Scrub:55dB	Dust Mop:45dB
Screen Size	10.1inch	
Weight	70Kg	
Size (length*width*height)	650mm*580mm*550mm	
Cleaning Modes	Scrub / Power Scrub / Sweep&Vacuum / Sweep, Vacuum&Map / ECO Vacuum / Dust Mop	

[1]Subject to different cleaning modes.

APPLICATIONS



Office building



Shopping Mall



School



Health Center



Hotel



Traffic Center



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• **IKITBOT Co.,Ltd.** was established in 2021 and specializes in providing efficient, easy to operate, and effective commercial robotic cleaning solutions for public spaces such as office buildings, hotels, hospitals, airports, transportation hubs, and factories. The company's cleaning robot series is designed based on the real cleaning needs of facilities, offering flexible configurations and multiple module combinations. The robots are powered by advanced algorithms, enabling improved efficiency, quality, safety, and smart features in cleaning processes. **IKITBOT** is committed to helping customers solve challenges in their cleaning operations by digitalizing and smart-managing cleaning tasks.

• **IKITBOT's** core team members have over 10 years of experience in the service robotics industry, with deep expertise in cleaning system structures, AI vision algorithms, and robotic hardware design. The team has developed many groundbreaking service robot products and has shipped them to over 80 countries, achieving nearly USD\$5.5 billion in total shipment value. **IKITBOT** has applied for and been granted more than 100 patents and software copyrights.

• **Certificate:** ISO9001、CE、FCC、UL、PSE、TELECOM、CB、IEC and RoHS

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