



AlphaRobotics ONE S55 PRO

All-in-One Commercial Cleaning Robot

Leading the New Era of Cleaning Robotics

4,000 m²

Cleaning coverage
per cycle

55 dB

Ultra-quiet scrub
mode



Shopping
Mall

School

Traffic
Center

Office
Building

Health
Center

Hotel

One-time full-process operation with up to 4,000 m² coverage per cycle and 50,000 m² single-map capacity.



Operational Overview & Applications

The AlphaRobotics ONE S55 PRO combines scrub, power scrub, sweep & vacuum, sweep-vacuum-mop, ECO vacuum and dust mop modes in one commercial cleaning robot. Modes switch with a simple touch on the 10.1-inch screen — no need to change any cleaning modules or parts, ensuring a seamless, user-friendly experience.



22 L / 15 L

Clear / waste water
tank

1,368 m²/h

Max. cleaning
efficiency

< 4 h

Charging cycle

Ideal Environments

Shopping
Mall

School

Traffic Center

Office
Building

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Hotel

Core Operating Value

6-in-1 cleaning platform

Sweep, scrub, vacuum, dust-mop, disinfect and self-clean functions in one solution.

One-time full-process operation

Up to 4,000 m² cleaning coverage per cycle with up to 50,000 m² mapping capacity on a single map.

Service-friendly design

Modular cleaning tools, integrated piping and one-click deployment keep daily operation simple.



Key Technology Features

AI-powered cleaning, multi-mode floor care, and facility-ready automation in one compact platform.

All-in-One

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

Ultra-Quiet Cleaning

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

Efficient Cleaning

Roller brush width 520 mm; mop pad width 540 mm / 580 mm (optional); efficiency 1,197–1,368 m²/h.

Remote App Control

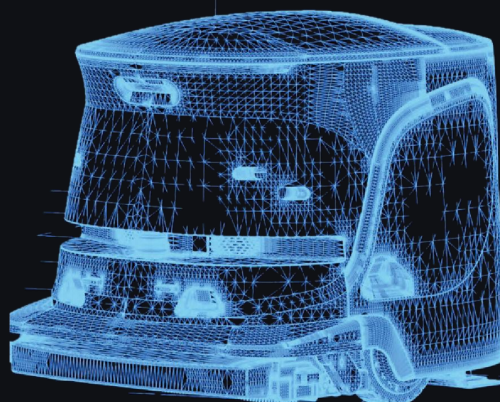
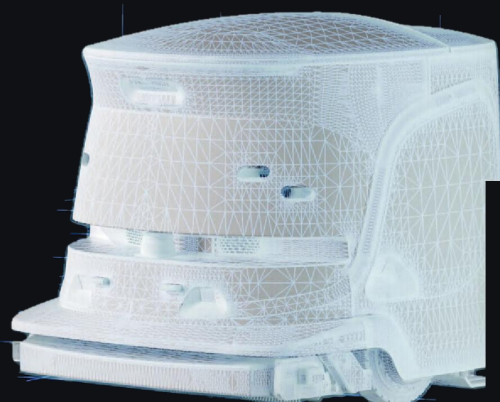
Easy control via app or browser — adjust tasks, edit maps, and send feedback in real time.

Suspended Obstacle Detection

Accurately identifies hanging cables and raised edges for safer navigation.

One-Click Deployment

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





Safety Systems & Maintenance

Multi-sensor safety with easy-maintenance, service-friendly design.

Stereo Camera & Line Lasers

Garbage and cliff/step detection, with 5 cm* distance to walls and corners to maximize cleaning area.

LiDAR Sensor

Up to 10,000 m² map constructing capacity with auto positioning and real-time map updating.

Ultrasonic Sensors

Smart obstacle avoidance backed by 15+ high-precision sensors for a safe 360° work environment.

Easy-Maintenance Design

Ozone-disinfected clean water, nano-silver waste water strainer and low-curvature piping for fast service.

Options: 222 nm UVC light unit · Edge-cleaning brush module · Detachable towing handle · 22-inch external display.





Complete Specification Matrix

Manufacturer specifications preserved in dual units — imperial and metric.

PARAMETER	TECHNICAL VALUE
Clear Water Tank Capacity	22 L 5.8 gal
Waste Water Tank Capacity	15 L 4.0 gal
Cleaning Efficiency [1]	Scrub: 1,197 m ² /h 12,885 ft ² /h; Power Scrub: 1,197 m ² /h 12,885 ft ² /h Sweep&Vacuum: 1,368 m ² /h 14,725 ft ² /h; ECO Vacuum: 1,368 m ² /h 14,725 ft ² /h Dust Mop: 1,368 m ² /h 14,725 ft ² /h; Sweep, Vacuum&Mop: 1,368 m ² /h 14,725 ft ² /h
Cleaning Path	Zigzag
Gradeability	Maximum uphill angle: 6°; Maximum operating slope: 8°
Min. Passable Width [1]	700 mm 27.6 in
Braking Distance at Full Speed	300 mm 11.8 in
Charging Cycle	< 4 h
Battery Life	Scrub: 4.5 h; Power Scrub: 3.5 h; Sweep&Vacuum: 4.5 h Sweep, Vacuum&Mop: 4.5 h; ECO Vacuum: 19.5 h; Dust Mop: 28 h
Noise Control	Scrub: 55 dB; Dust Mop: 45 dB
Screen Size	10.1 in
Weight	70 kg 154 lb
Size (L×W×H)	650 × 580 × 550 mm 25.6 × 22.8 × 21.7 in
Cleaning Modes	Scrub / Power Scrub / Sweep&Vacuum / Sweep, Vacuum&Mop / ECO Vacuum / Dust Mop



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SMART TECH. HUMAN TOUCH

AlphaRobotics One S55 Pro

The Reliable, Hassle-free Robots You Can Trust



Leading the New Era of Cleaning Robotics

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Smart Tech. Human Touch.