

PUDU MT1 Max

AI-powered 3D Perception Robotic Sweeper



3D Perception
Integration



Magic Cleaning



Intelligent Active
Interaction



Empty the Facility of
Any Dirt & Trash



24/7 Continuous
Operation



AI Adaptive
Cleaning



Covers Up to
100,000m²



Smart Obstacle
Avoidance Upgrade



Intelligent Active Interaction

With both structural protection and smart response systems, the MT1 Max can actively perceive and adapt to its surroundings.



No Debris Too Big or Small

Empty the facility of any dirt & trash

70cm Cleaning width
0cm Edge Cleaning
35L Trash-bin Capacity



AI Adaptive Cleaning Strategy

Adaptive cleaning slows brushes rotation for light debris to prevent scattering, speeds them up for heavier waste, and adjusts body angle to guide debris into the dual-brush gap for effective pickup.



3D Perception Enhancement

Equipped with a 3D perception system (3D LIDAR + multi-sensor fusion), MT1 Max maps environments accurately, detects obstacles in real time, and navigates efficiently even in high ceilings, nighttime, or heavy interference, ensuring reliable performance in complex cleaning tasks.



Magic Cleaning

MT1 Max's dual-chip design with hardware-software synergy powers adaptive cleaning, trash recognition, spot cleaning, and more.



Smart Obstacle Avoidance

MT1 Max features multiple avoidance strategies, proactively yielding to vehicles.

Pedestrian and Animal Avoidance: Quickly reacts to sudden "pop-out" movements.



24/7 Continuous Operation

High-capacity batteries, rapid charging, and auto-docking technology enable continuous 24-hour operation.



Robot Dimensions(L*W*H)
840 × 600 × 675mm (33"23.6"26.6 in)

Robot Weight
85 kg (187.39 lbs)

Cleaning Capabilities
Sweeping

Charging Time
≤ 3.5 h

Run-time
5-10 h, Standard Mode 8 h

Battery Capacity
60 Ah

Cruise Speed
0.2 m/s - 1.2 m/s (0.66 ft/s - 3.94 ft/s)
(adjustable)

Cleaning Width
70 cm (27.6 in) (with side brush)

Navigation
VSLAM + Marker + 3D LIDAR SLAM

Trash-bin Capacity
35 L (9.25 US gal)

Cleaning Performance
Cover Cleaning Max. 2200㎡/h (23680.6 ft²/h)
Spot Cleaning Max. 7000㎡/h (75347 ft²/h)



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