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 100,000㎡
- Smart Obstacle Avoidance Upgrade



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Intelligent Active Interaction

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





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.



No Debris Too Big or Small

Empty the facility of any dirt & trash

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



Magic Cleaning

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



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.





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 (75,347 ft²/h)	

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