# PUDU MT1 Vac

## AI-powered Robotic Sweeper & Vacuum

- Powerful Suction
- High Efficiency (55 cm)
- Extended Run-time (24 HOURS)
- AI-driven Adaptive Cleaning
- Quick-Release Dust Mop Module
- Hand-vacuum Extension



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## Double Efficiency

Dual-fan deep vacuuming: Equipped with a new dual independent air duct system, boosting suction efficiency by 200%.

## Wide Cleaning Coverage

**55 cm extra-wide suction path:**

Compared with most traditional commercial vacuum cleaners, each pass covers twice the area, greatly reducing cleaning time and improving efficiency.




## For Both Carpet and Hard Floors

AI-powered floors recognition identifies carpet and hard floors in real time, automatically adjusting suction and brush speed to protect delicate surfaces.

## 24/7 Continuous Operation

With a large battery, fast-charging system, and charging station, the MT1 Vac supports 24/7 operation.

## Easy Maintenance, Tool-Free Swaps

Quick-release modular design allows tool-free replacement of most cleaning components in seconds. The dust mop can be removed and deployed flexibly to suit different cleaning needs.

## Dust and Waste Separation

**6L trash bin + 14L dust bags:**

The large-capacity system handles large-area cleaning in a single run, significantly reducing the need for frequent emptying.

## Hand-vacuum Extension

Hand-vacuum extension allows cleaning of sofa sides, walls, and glass surfaces. Flexible reach for edges, high surfaces, and soft furnishings.

- Dimensions
  840 x 600 x 490 mm (33*23.6*19.3 in)
- Weight
  75 kg (165.35 lbs)
- Cleaning Performance
  Max.1400 $m^2$/h (15,069.47 $ft^2$/h)
- Charging Time
  < 3.5 h
- Run-time
  3–6.5 h
  (Standard sweep and vacuum mode on hard floors: 4h)
- Cruise Speed
  0.2 m/s ~ 1.2 m/s
  (0.66 ft/s–3.94 ft/s) (adjustable)
- Air Filtration Level
  H11 (optional H13)
- Vacuuming Width
  55 cm (21.7 in)
- Cleaning Capacity
  Dust Bag Capacity: 14 L (7 L*2 )
  [0.494 $ft^3$ (0.247 $ft^3$*2)]
  Trashbin Capacity: 6 L (0.21 $ft^3$)
- Navigation
  VSLAM + Marker + LiDAR SLAM



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# 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



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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



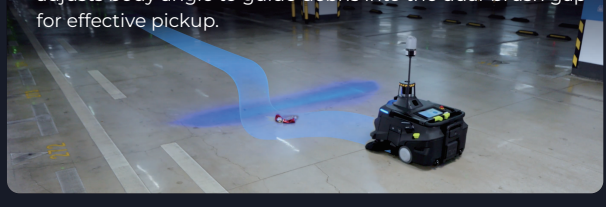
## Magic Cleaning

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 .

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|---|---|---|---|
| **Robot Dimensions(L×W×H)**<br>840 × 600 × 675mm (33*23.6*26.6 in) | **Robot Weight**<br>85 kg (187.39 lbs) | **Cleaning Capabilities**<br>Sweeping | **Charging Time**<br>< 3.5 h |
| **Run-time**<br>5-10 h，Standard Mode 8 h | **Battery Capacity**<br>60 Ah | **Cruise Speed**<br>0.2 m/s ~ 1.2 m/s (0.66 ft/s–3.94 ft/s) (adjustable) | **Cleaning Width**<br>70 cm (27.6 in) (with side brush) |
| **Navigation**<br>VSLAM + Marker + 3D LiDAR SLAM | **Trash-bin Capacity**<br>35 L (9.25 US gal) | **Cleaning Performance**<br>Cover Cleaning Max. 2200㎡/h (23680.6 ft²/h)<br>Spot Cleaning Max. 7000㎡/h (75,347 ft²/h) | |

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