

Product Overview

Product Features

Product Value

About PUDU

# **PUDU MT 1**

#### **Al Powered Robotic Sweeper**

PUDU MT1 is the world's first AI-powered sweeping robot designed for large-scale environments, delivering exceptional performance and comprehensive cleaning capabilities. With cleaning results rivaling ride-on sweepers, it is dedicated to providing users with an efficient and seamless cleaning experience. Equipped with an industry-leading multi-sensor fusion AI visual recognition system, MT1 effortlessly enables 24/7 autonomous operation, setting a new standard in the cleaning industry revolution.



## **Key Features**



No Debris Too Big or Small



Rapid Adaptation to Changing Environments



Al Trash Recognition



24/7 Continuous
Operation



**Al Spot Cleaning** 



**User-Friendly Design** 

### **Product Introduction**



# **Product Specifications**

840mm × 600mm × 490mm (31.5 in*23.6 in*19.3 in)	
65 kg (143 lbs)	
Max. 1800㎡/h (All-covered Cleaning Mode), Max. 6000㎡/h (Spot Cleaning Mode) Max. 19375.04 ft²/h (All-covered Cleaning Mode), Max. 64583.46 ft²/h (Spot Cleaning Mode)	
35 L (1.2 ft <sup>3</sup> )	
45Ah	
4-8h (differentiated by cleaning levels )	
0.2 m/s ~ 1.2 m/s (0.66 ft/s–3.94 ft/s) (adjustable)	
< 3h	
VSLAM+Marker+Lidar SLAM	
Minimum 75cm (29.53 inches)	
70cm (27.56 inches)	
	(31.5 in*23.6 in*19.3 in)  65 kg (143 lbs)  Max. 1800n³/h (All-covered Cleaning Mode), Max. 600m³/h (Spot Cleaning Mode) Max. 19375.04 ft²/h (All-covered Cleaning Mode), Max. 64583.46 ft²/h (Spot Cleaning Mode) 35 L (1.2 ft³)  45Ah  4-8h (differentiated by cleaning levels )  0.2 m/s ~ 1.2 m/s (0.66 ft/s-3.94 ft/s) (adjustable)  < 3h  VSLAM+Marker+Lidar SLAM  Minimum 75cm (29.53 inches)



Product Overview

Product Features

Product Value

About PUDU

### No Debris Too Big or Small

# 35L Trash-bin Capability70cm Practical Cleaning Width

The dual-disc brushes easily handle larger debris like leaves and bottles, while efficiently sweeping up fine dust and dirt to ensure no small particles are left behind.



### **Active Dust Control**

Utilizes high-flow negative pressure ventilation and an efficient filter to trap particles in the debris box, effectively preventing secondary pollution.

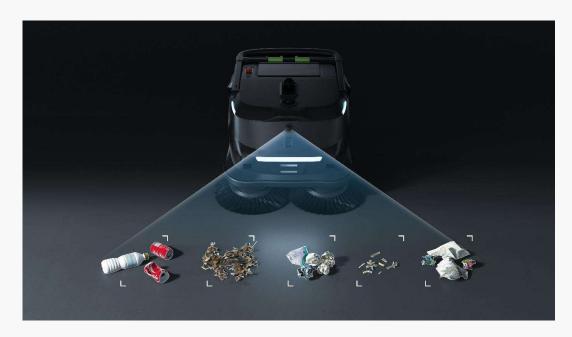


### **Designed for Big Venues**



It's designed to tackle areas exceeding 100,000 square meters with professional-grade dry cleaning.

### **Al Visual Trash Recognition**



The PUDU MT1 is equipped with Al cameras that can recognize and identify various types of trash in real time, continually learning and evolving through deep learning and database updates.

## **Al Spot Cleaning**

#### **5x Efficiency Increase**

Targeted and Precise: the PUDU MT1 features an ultra-wide scanning field of view, effortlessly covering large areas. During the routine patrols, it accurately detects and efficiently cleans up waste, making cleaning smarter and more convenient.



### **Seamless Adaptation to Dynamic Environments**

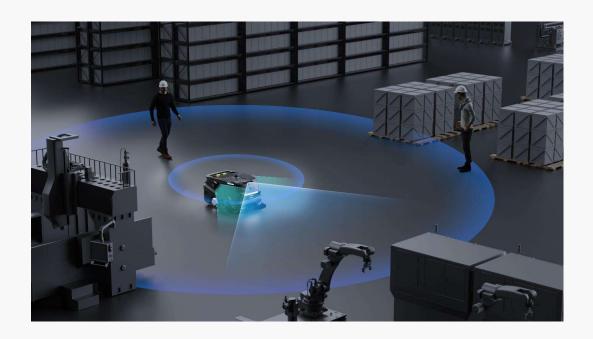


# Lidar SLAM + VSLAM Integrated positioning:

The PUDU MT I ensures flexible and adaptive operation, quickly adjusting to dynamic environments.

### **Multi-sensor for All-around Protection**

Equipped with three-dimensional depth perception and multi-sensor fusion, the MT1 navigates complex spaces smoothly, avoiding collisions and ensuring clear paths without blockages.



# **Manual & Automatic Integration**



Extendable Steering Handle:

This feature is particularly useful for manual intervention, allowing staff to effortlessly transition the robot between areas.

## **Superior Mobility**

Boasting an exceptional 75cm path clearance, the PUDU MT1 ensures agile maneuverability in narrow human-robot cohabited spaces, effortlessly overcoming 20mm thresholds and 35mm grooves.



The PUDU MT1 excels at close-edge cleaning, ensuring it hugs walls and corners tightly for thorough coverage without leaving gaps. Its precise sensors allow for accurate, efficient edge cleaning in all environments.



# **Modular Design**



#### Quick-release Design:

Trash-bin and other cleaning consumables feature quick-release modular designs for easy maintenance and replacement.

# 24/7 Continuous Operation



Max 8h Run-time

3h Fast Charging

With its long run-time, fast charging, and automated docking, the PUDU MT 1 operates 24/7, completing three full-charge cycles per day to ensure continuous, round-the-clock cleaning.

### **IOT Capabilities**



The PUDU MT1 integrates with IoT devices, interacting with elevators, gates, and other infrastructure for multi-floor cleaning. Remote monitoring via apps and PC interfaces provides real-time updates, visualized cleaning reports, and notifications when the trash is full, ensuring efficient management.



PUDU Link (App)



**Elevator Control Module** 



**E-gate Control Module** 

Product Overview

Product Features

Product Value

About PUDU











More ...

#### **Product Value**



#### **Increases Overall Cleaning Efficiency**

The PUDU MT1 handles various debris sizes, from fine dust to larger fragments, reducing cleaning time and the need for manual intervention. Its continuous operation capability ensures large areas are thoroughly cleaned, keeping environments always tidy.

#### **Intelligent Trash Recognition for Precision**

With AI-powered trash detection, the PUDU MT1 automatically identifies and categorizes different types of debris, ensuring precise cleaning. This reduces missed spots and unnecessary overlaps, optimizing the cleaning process.

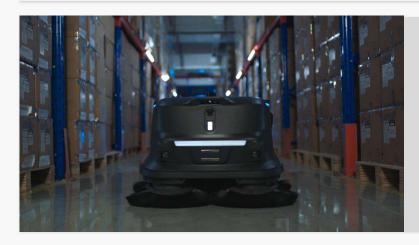


#### **Product Value**

#### **Adapts to Changing Environments**

The robot's ability to quickly adjust to dynamic environments makes it highly adaptable. Whether in factories, malls, or airports, it navigates complex settings effortlessly, ensuring uninterrupted and efficient cleaning in any scenario.





#### 24/7 Autonomous Operation to Reduce Labor Costs

With round-the-clock autonomous operation, the robot performs cleaning tasks independently, significantly cutting down on the need for human intervention. This makes it ideal for large commercial spaces, greatly reducing operational and labor costs.

Product Overview

Product Features

Product Value

About PUDU

#### **About US**



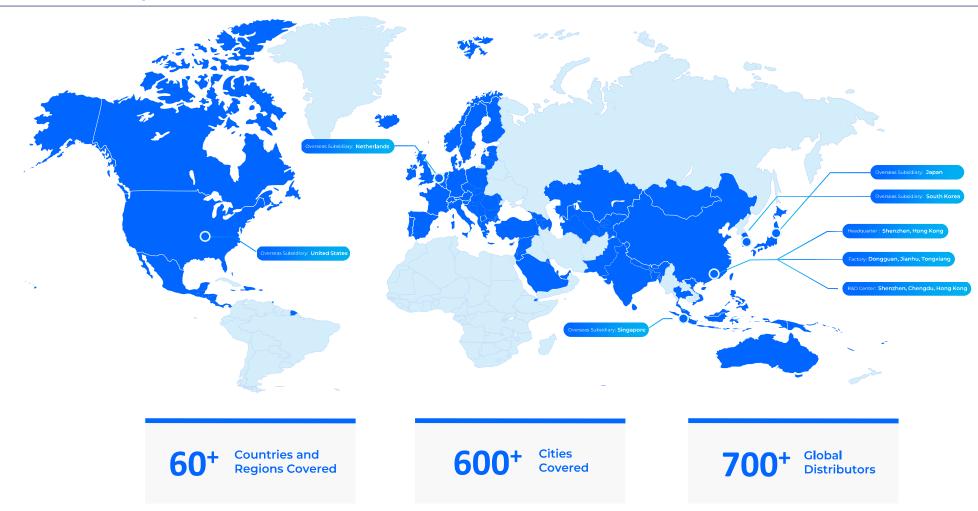
Pudu Robotics, a global leader in the service robotics sector, is dedicated to enhancing human productivity and living standards through innovative robot technology.

With a focus on R&D, manufacturing, and sales of service robots, Pudu Robotics holds nearly a thousand authorized patents worldwide, encompassing a wide range of core technologies. The company's robots have been widely adopted in various industries, including dining, retail, hospitality, healthcare, entertainment, education and manufacturing. To date, Pudu Robotics has successfully shipped nearly 80,000 units to a variety of markets, with a presence in more than 60 countries and regions worldwide.



#### **Global Footprint**





#### **Honor and Awards**



Pudu Robotics has gained recognition from organizations and institutions across various industries.

























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