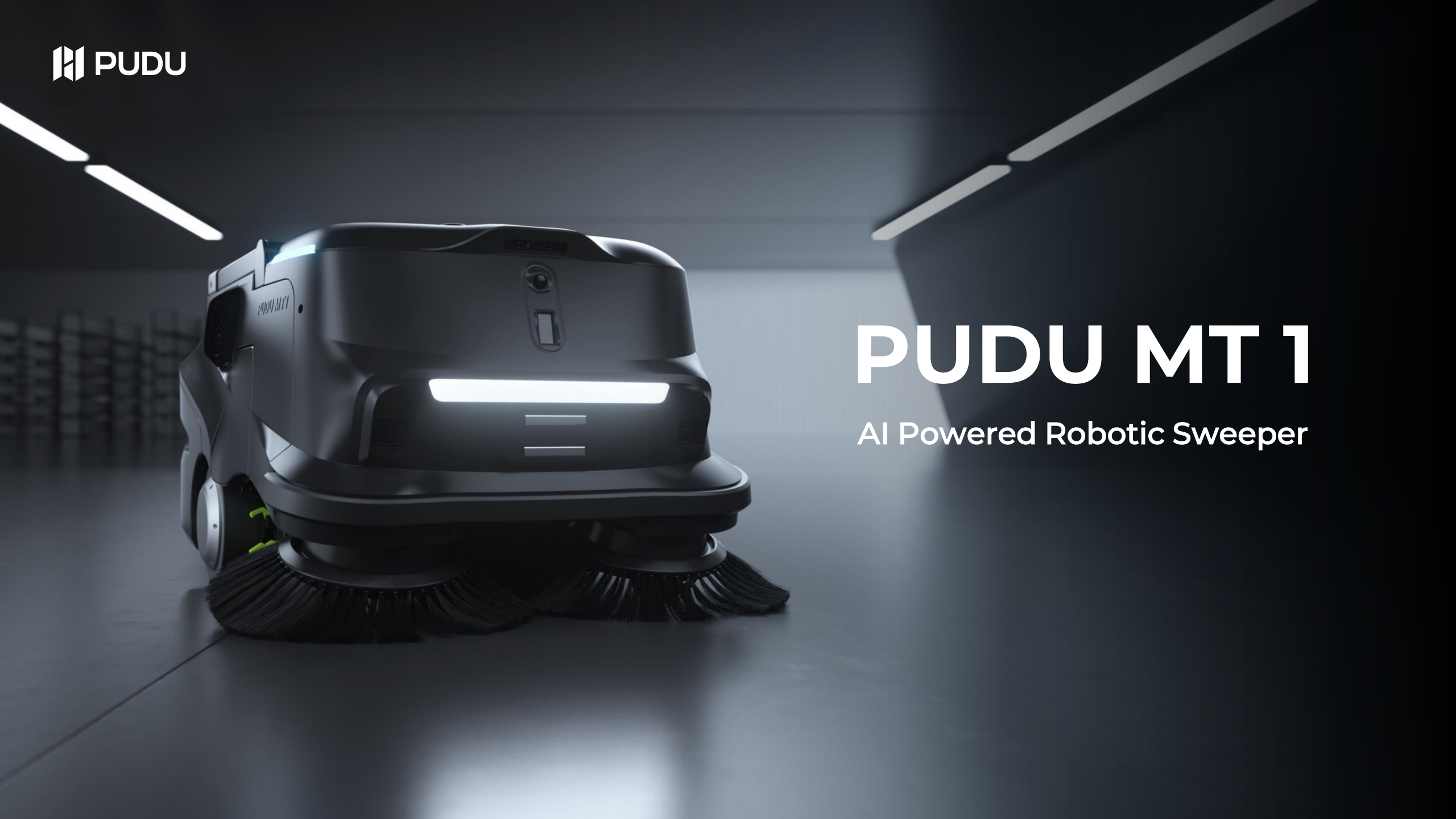
PUDU



PUDU MT 1

AI Powered Robotic Sweeper

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Product Overview

Product Features

Product Value

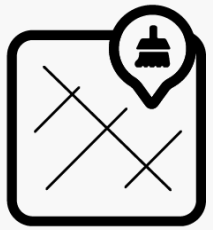
About PUDU

PUDU MT 1

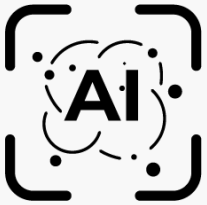
AI Powered Robotic Sweeper

PUDU MT 1 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, MT 1 effortlessly enables 24/7 autonomous operation, setting a new standard in the cleaning industry revolution.

Key Features

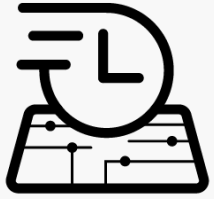


No Debris Too Big or Small



AI Trash Recognition

AI Spot Cleaning



Rapid Adaptation to Changing Environments

24/7 Continuous Operation

User-Friendly Design

Product Introduction

Product Specifications

Robot Dimensions(L×W×H)	840mm × 600mm × 490mm (31.5 in*23.6 in*19.3 in)
Robot Weight	65 kg （143 lbs）
Cleaning Performance	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）
Trash Bin Capacity	35 L (1.2 ft³)
Battery Capacity	45Ah
Run-time	4-8h（differentiated by cleaning levels ）
Cruise Speed	0.2 m/s ~ 1.2 m/s (0.66 ft/s–3.94 ft/s)（adjustable）
Charging Time	< 3h
Navigation Method	VSLAM+Marker+Lidar SLAM
Path Clearance	Minimum 75cm (29.53 inches)
Cleaning Width	70cm (27.56 inches)

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No Debris Too Big or Small

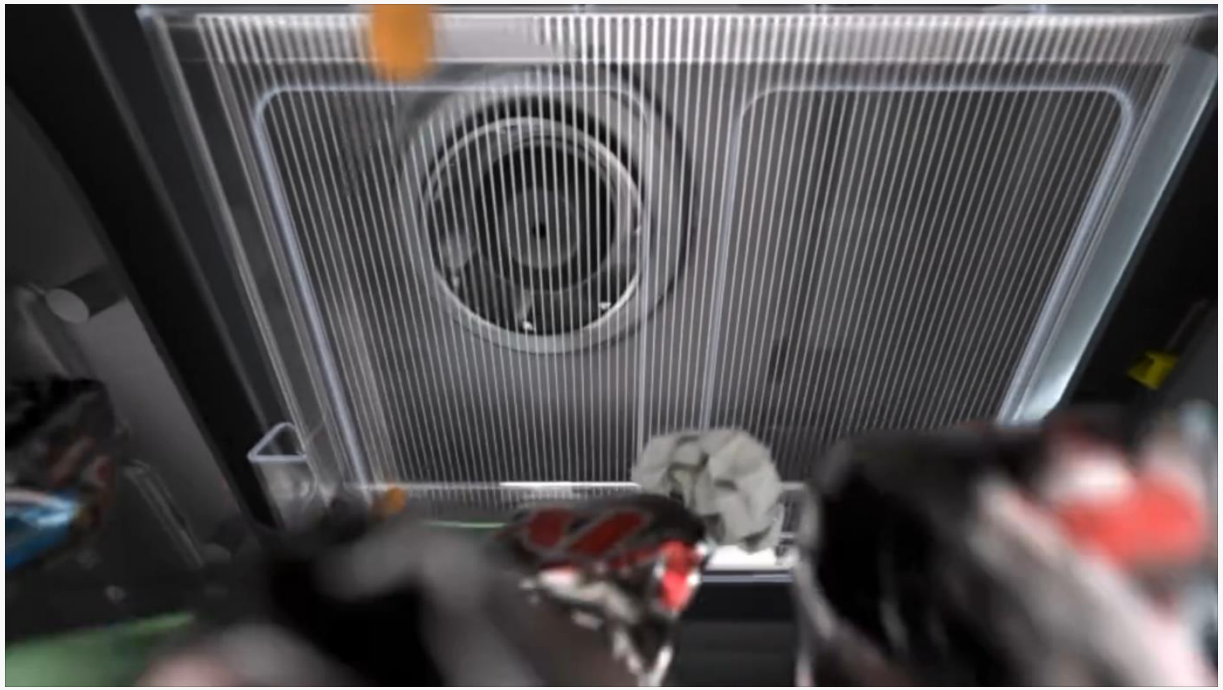
35L Trash-bin Capability

70cm 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

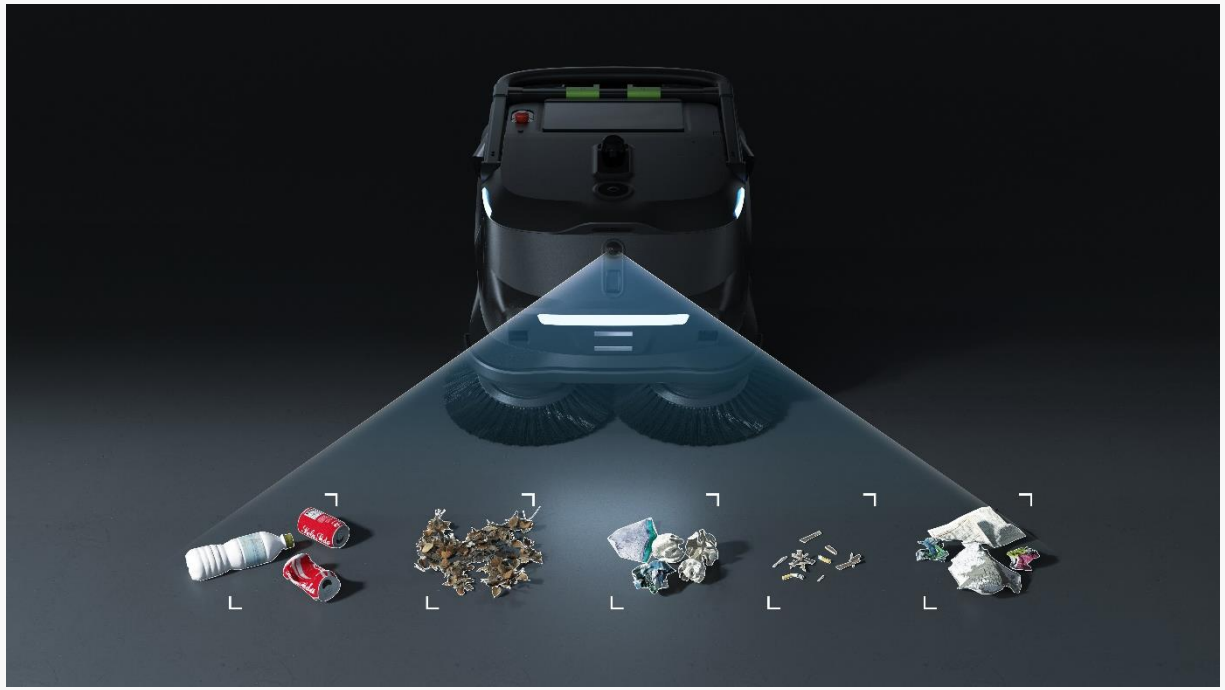
Utilizes high-flow negative pressure ventilation and an efficient filter to trap particles in the debris box, effectively preventing secondary pollution.



Designed for Big Venues

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

AI Visual Trash Recognition



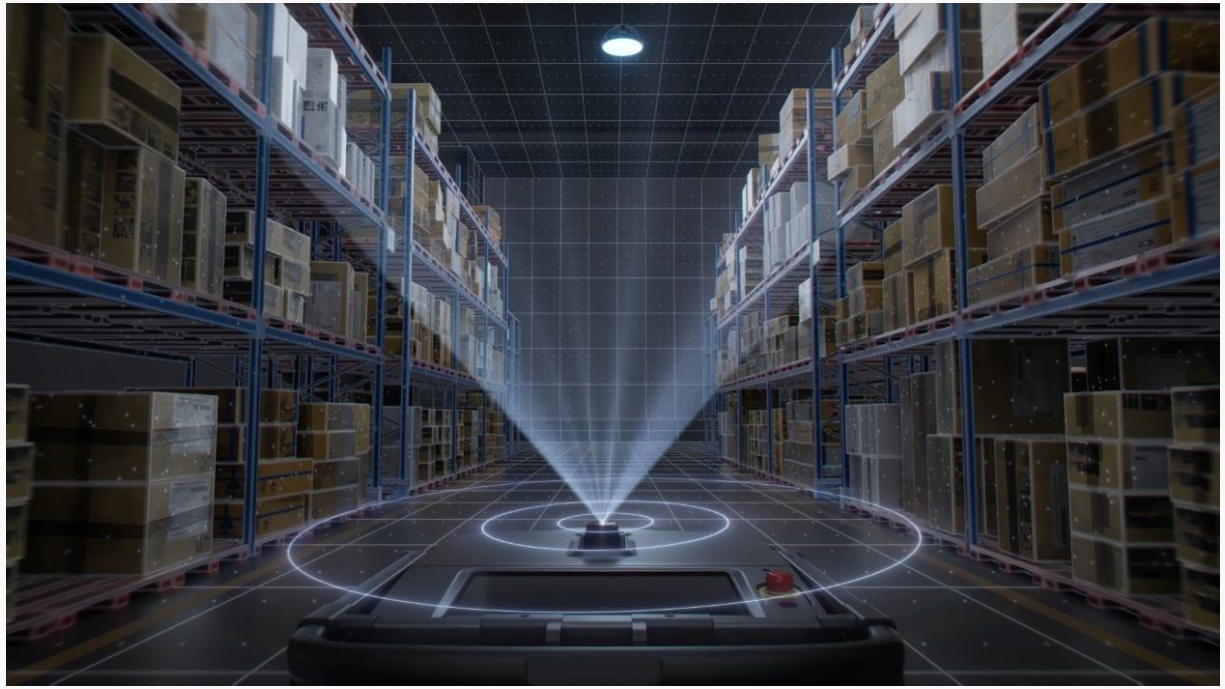
The PUDU MT 1 is equipped with AI cameras that can recognize and identify various types of trash in real time, continually learning and evolving through deep learning and database updates.

AI Spot Cleaning

5x Efficiency Increase

Targeted and Precise: the PUDU MT 1 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

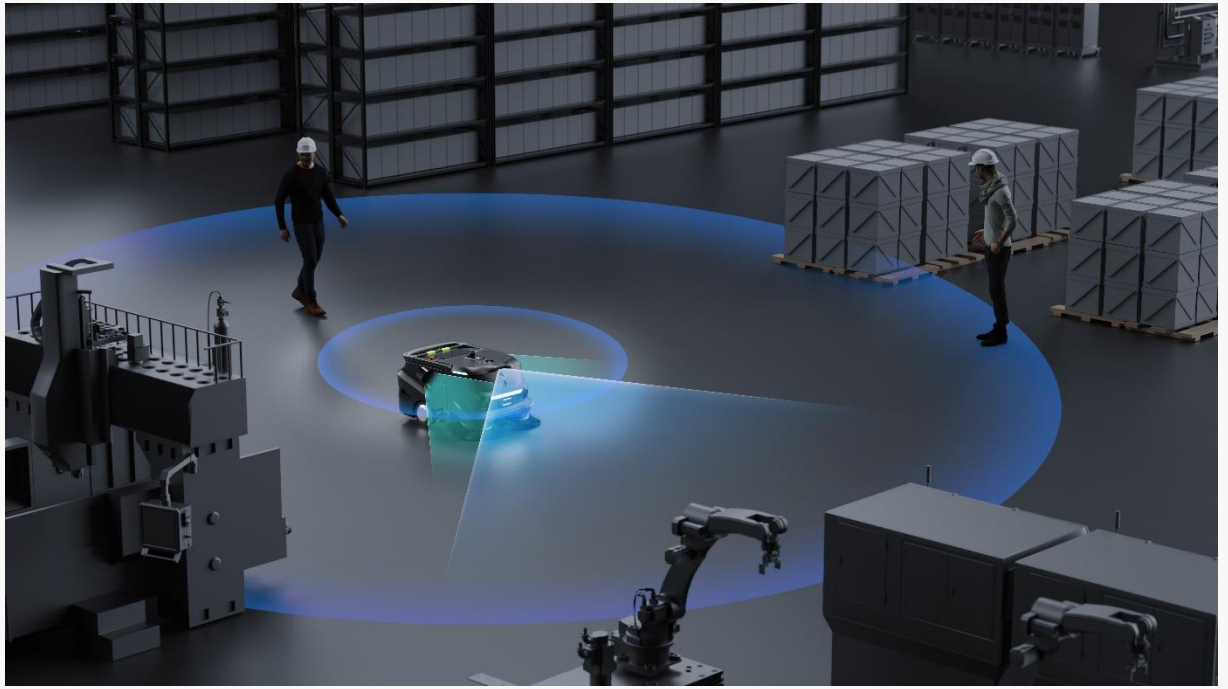


Lidar SLAM + VSLAM Integrated positioning:

The PUDU MT 1 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 MT 1 navigates complex spaces smoothly, avoiding collisions and ensuring clear paths without blockages.



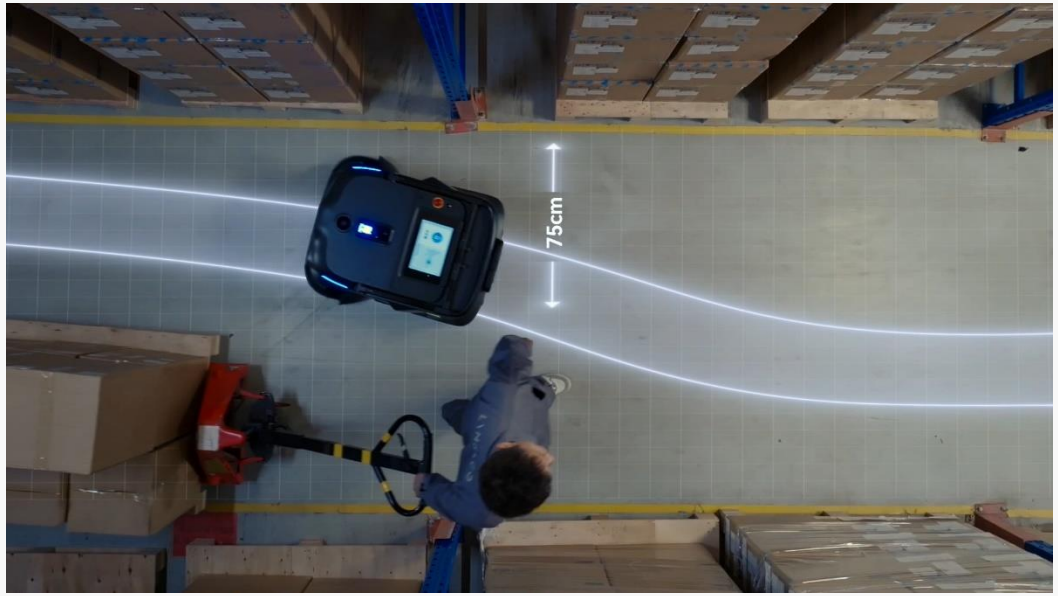
Manual & Automatic Integration

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 MT 1 ensures agile maneuverability in narrow human-robot cohabited spaces, effortlessly overcoming 20mm thresholds and 35mm grooves.



The PUDU MT 1 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.

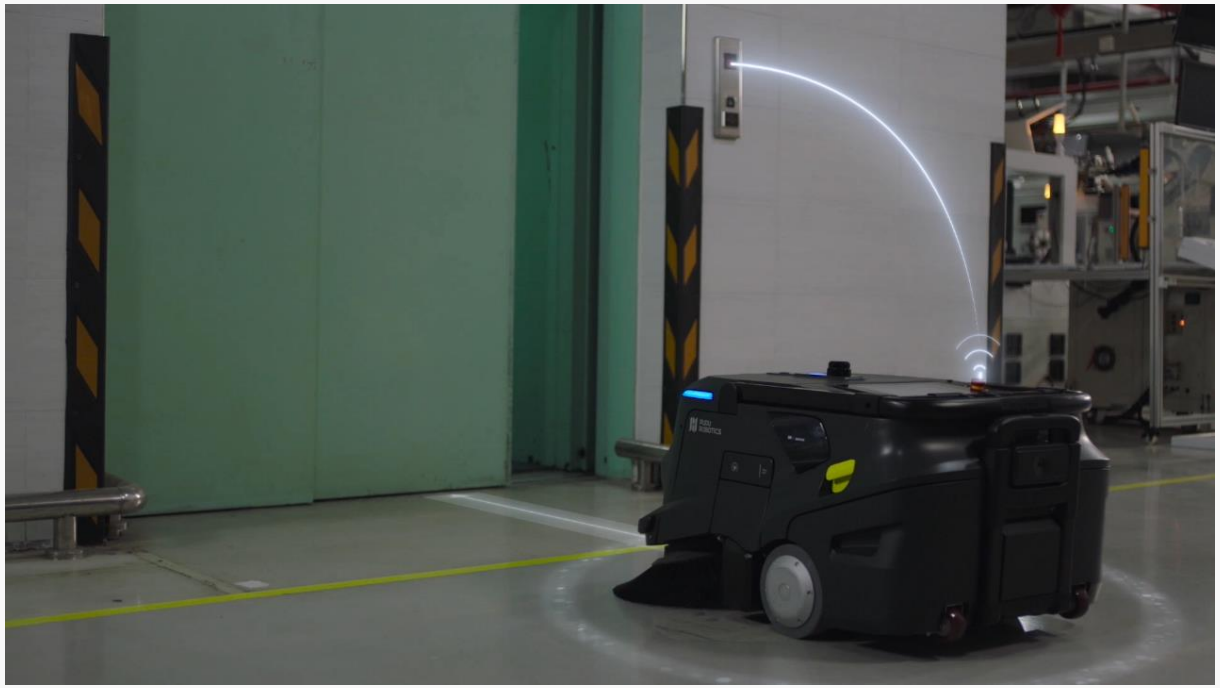
24/7 Continuous Operation

Max 8h Run-time

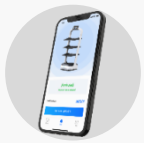
3h Fast Charging

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 MT 1 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

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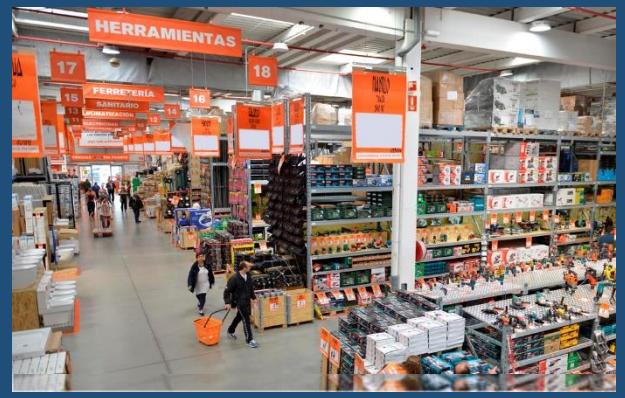


Home Improvement Retail

Warehouse and Logistics

Processing and Manufacturing

Public Transportation

Shopping Mall

More

...

Product Value

Increases Overall Cleaning Efficiency

The PUDU MT 1 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.

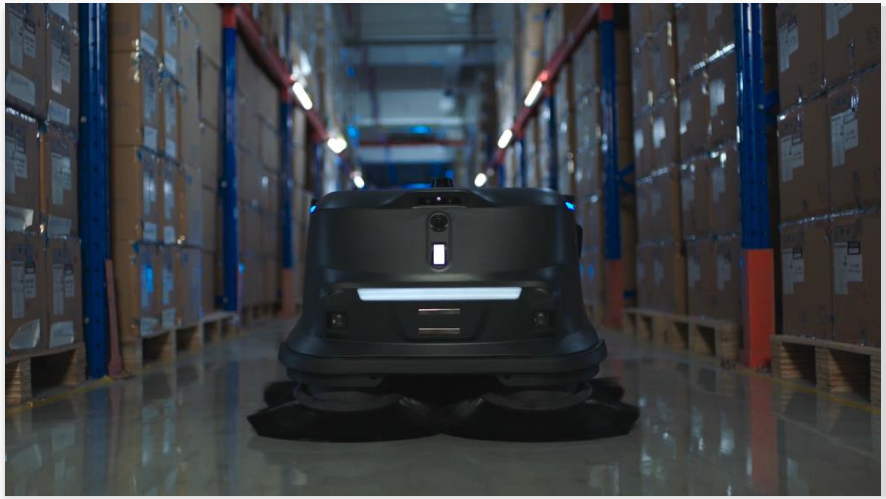
Intelligent Trash Recognition for Precision

With AI-powered trash detection, the PUDU MT 1 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.

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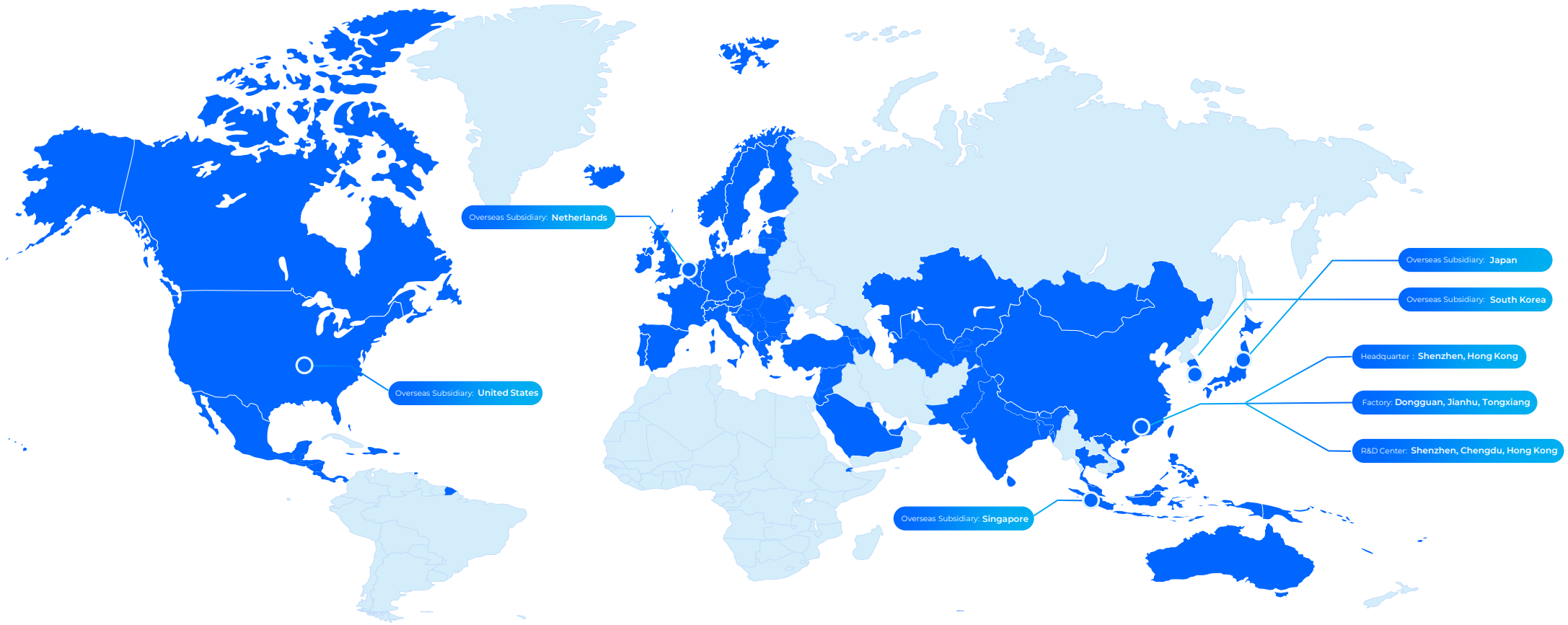
About PUDU

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



60+ Countries and Regions Covered

600+ Cities Covered

700+ Global Distributors

Honor and Awards

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

reddot winner 2023

reddot award
best of the best

GOOD DESIGN AWARD 2022

DESIGN AWARD 2023

INTERNATIONAL DESIGN EXCELLENCE AWARDS

WIPO Global Awards Finalists

FAST COMPANY INNOVATION BY DESIGN 2024

CES

IFEX Innovation Awards 2022

HIP Horeca Professional Expo
HOSPITALITY INNOVATION PLANET

COMMERCIAL KITCHEN INNOVATION CHALLENGE GOLD WINNER 2022

THE IFSA'S THE IRISH FOODSERVICE SUPPLIER AWARDS
BEST FOODSERVICE TECHNOLOGY PRODUCT - FRONT OF HOUSE 2023

Application Industries

Revolutionizing Ten Major Industries with Smart Robotic Solutions

Food & Beverage

Hospitality

Retail

Industrial Facility

Health Care

Residential and Office Buildings

Education

Entertainment & Sport

Transportation and Related Service

Public Service

PUDU

Thank you!

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