



1000000



## AUTONOMOUS DRIVING **SWEEPER S120**

Ten-thousand-square-meters  
Outdoor Cleaning Expert



GOLDEN  
PIN  
DESIGN  
AWARD



## Product Advantages

### More Intelligence

- High-precision mapping Intelligent trajectory planning
- Dynamic memory sweeping
- Autonomous obstacle avoidance and obstacle avoidance in complex scenes
- Low battery self-recharging
- Automatic Parking Recognition
- Remote control through cloud platform

### More Economical

- The daily workload of one machine is equivalent to the total daily workload of four cleaners, thus reducing cleaning costs

### More Efficiency

- Up to 6 hours of battery life
- 24h Non-stop Operation
- Cleaning without dead ends
- 100L large-capacity trash can

### More Security

- Integrates multiple sensors such as lidar and ultrasonic Perceptual recognition without blind spots in all directions



















### More Technological

- Technological appearance design
- Various appearance colors are optional

### More Precise

- Millimeter-level precision positioning can be achieved in both non-GNSS and weak GNSS areas

# Function Introduction

Supporting Function	Function Introduction
 Cleaning in super large area scenes	Supports the cleaning of scenes less than 100,000 square meters.
 Automatic cleaning of the whole area	Through autonomous navigation, autonomous path planning and other technologies to achieve full-area coverage cleaning.
 Automatically clean the designated area	Supports for custom job areas.
 Timing automatic cleaning operation function	The regular cleaning time can be set, and the sweeper can complete the cleaning task independently at the scheduled time.
 Built-in audio and LED screen	The sweeper has its own audio and LED screen, and it realizes broadcasting through cloud platform operation.
 Autonomous driving monitoring and patrolling	Through automatic cruise technology and cloud platform management, real-time monitoring and security early warning can be realized in the cleaning operation area.
 Built-in camera	Through the built-in 4 cameras, the cleaning operation area can be monitored in all directions.
 Sweep along the edge	Supports the cleaning of different road surface edge areas.
 Auto-avoidance	Supports obstacle recognition and automatic obstacle avoidance in the cleaning area.
 Battery management and automatic charging system	The sweeper can set the warning value of low power and automatically charge.
 Energy saving technology	Through energy-saving technology and large battery capacity, the sweeper can last up to 6 hours.
 AI warning technology	The sweeper can provide real-time early warning of the operation area through the AI recognition algorithm.
 Clean data report	The data statistics of the sweeper cleaning report can be queried through the cloud platform.
 Notification	In case of sweeper failure, task completion, etc., relevant information will be automatically pushed.
 API interface	Access the user's original smart park platform or property management platform through the API interface.
 Multiple security guarantees	Through a variety of sensor fusion technologies, the safety of sweeper operation is guaranteed.
 Side brush automatic lift	When the sweeper is cleaning, it will automatically adjust the height of the brush to ensure that the operation is carried out normally.
 OTA remote update	Supports OTA remote firmware upgrade to ensure continuous improvement of device functions.

# Product Parameters

Structural parameters		Electrical parameters		Operation parameters		Other parameters	
Size	163L * 120W * 122H(cm)	Battery Type	Lithium iron phosphate battery	Sweeping width	1200 mm 47.2in	Operating temperature	-20°C~+50°C
Weight	320kg 705lb	Average battery life	6-8 hours	Cleaning efficiency	Max4000 m <sup>2</sup> /h 43055ft <sup>2</sup> /h	Running noise	55~70 dB (a)
Battery weight	38kg 84lb	Maximum power	2000W 2.6hp	Security system	Lidar, Vision Systems, Ultrasonic Sensors	Running slope	≈15°
Dustbin volume	100L 26gal	Rated voltage	48V			Water tank volume	25 L(optional)
Remarks* The weight of the sweeper refers to the weight of the sweeper under no load, and the weight includes the weight of the battery.		Rated drive motor power	800 W 1.1hp	speed	0-8 km/h		
		Rated brush motor power	2x90W 0.1hp x2				
		Rated main brush power	800 W 1.1hp				

# Application Scenario



Main lidar

Visual camera

Blind spot radar

Turn signal light

Anti-tangle side brush guard



Remote driving camera

Ultrasonic sensor

tires



E-stop button

Remote driving camera

Monocular camera

Trash can

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