



Caiva.ai

# STORM SWEEP



[High-end Version]  
Intelligent Integrated Cleaning Robot



Caiva.ai



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

## MORE ECONOMICAL

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

## MORE TECHNOLOGICAL

- Technological appearance design
- Various appearance colors are optional

## MORE EFFICIENCY

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

## MORE PRECISE

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















## MORE SECURITY

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





## FUNCTION INTRODUCTION

Supporting function	Function introduction
 Cleaning in super large area scenes	It 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	Support for custom job areas.
 Timing automatic cleaning operation function	The regular cleaning time can be set, and the equipment can complete the cleaning task independently at the scheduled time.
 Built-in audio and LED screen	The equipment 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	Support 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 device can set the warning value of low power and automatically charge.
 Energy saving technology	Through energy-saving technology and large battery capacity, the equipment can last up to 6 hours.
 AI warning technology	The equipment can provide real-time early warning of the operation area through the AI recognition algorithm.
 Clean data report	The data statistics of the equipment cleaning report can be queried through the cloud platform.
 Notification	In case of equipment 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 equipment operation is guaranteed.
 Side brush automatic lift	When the equipment is cleaning, it will automatically adjust the height of the brush to ensure that the operation is carried out normally.
 OTA remote update	Support 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) 64L * 47W * 68H(in)	Battery Type	Lithium iron phosphate battery	Sweeping width	1200 mm 47.2in	Operating temperature	-15°C~+60°C
Weight	320kg 705lb	Average battery life	4-6 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	≤12 degrees
Dustbin volume	100L 26gal	Rated voltage	48V	speed	0-8 km/h		
<small>Remarks*</small> 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				
		Rated brush motor power	2 x 90W 0.1hp x2				
		Rated main brush power	800 W 1.1hp				





## APPLICATION SCENARIO



Storm Sweep has been put into normal operation in many microcirculation fields such as large enterprise groups, cultural and creative parks, and industrial parks

