

AUTONOMOUS DRIVING SWEEPER YZ

Ten Thousand Square Meters Level
Outdoor Cleaning Expert





Autonomous driving sweeper YZ is an industry-leading intelligent cleaning robot for 10,000 square meters level outdoor cleaning and aiming to start a new era of outdoor cleaning industry.

Top cleaning ability in the industry: The newly designed cleaning unit is adopted, which greatly improves many key indicators such as garbage types, disposal capacity per unit time, cleaning rate and close to roadside cleaning performance.

Excellent all-weather autonomous operation capability: A newly developed main control unit is equipped and manual intervention is not required during the whole process from regular departure, intelligent obstacle avoidance/extrication, adaptive adjustment of operating parameters, trash volume detection, automatic loading/unloading of trash cans, automatic charging/water filling and autonomous return in rainy days.

Outstanding scene adaptability and convenient operation and maintenance: Reliable autonomous navigation technology, 4G/5G wireless communication and remote takeover units(optional) are integrated, coupled with exclusive App and cloud platform to realize individual/group management, and it also supports intelligent self-inspection and self-diagnosis.

Top Cleaning Capability



A wide range of garbage can be dealt with freely to maximize the cleaning tool function.

JTClean-V2 cleaning technology can easily deal with different kinds of garbage such as sand, dust, leaves, pop cans, peels, water bottles, milk tea cups, plastic bags, cigarette butts/packages, paper scraps, etc.



Extreme zero distance close to roadside cleaning to ensure cleaning effect

High-precision sensory control system and adaptive dual-sided brush to actively or passively change roadside cleaning distance and with great narrow space accessibility.

Superior dust control to avoid secondary contamination

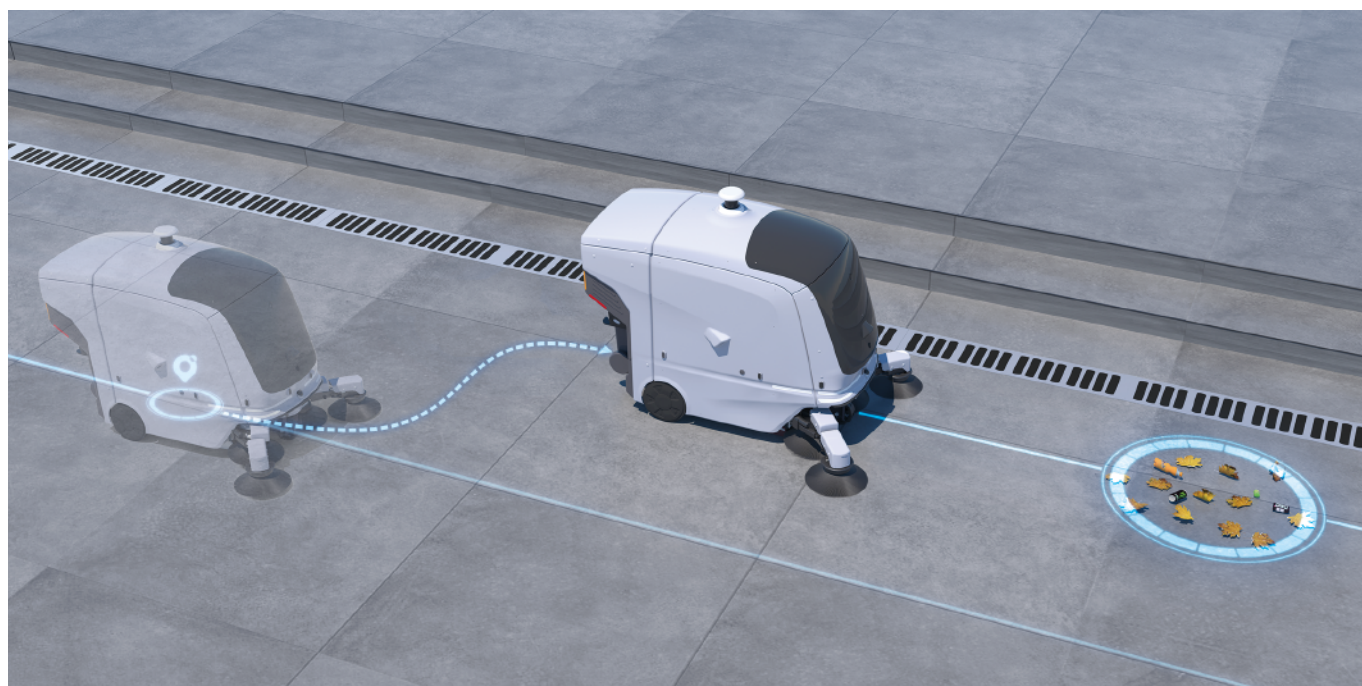
Equipped with dust suppression spray device and dust-vibrating system to suppress dust during the cleaning tasks.

Excellent All-weather Autonomous Operation Capability



★ Automatic loading/unloading of 120L trash can

With a deep understanding of business needs, the municipal sanitation standard trash cans are automatically loaded and unloaded, and cleaning, emptying and transportation are seamlessly connected, saving time, labor and money.

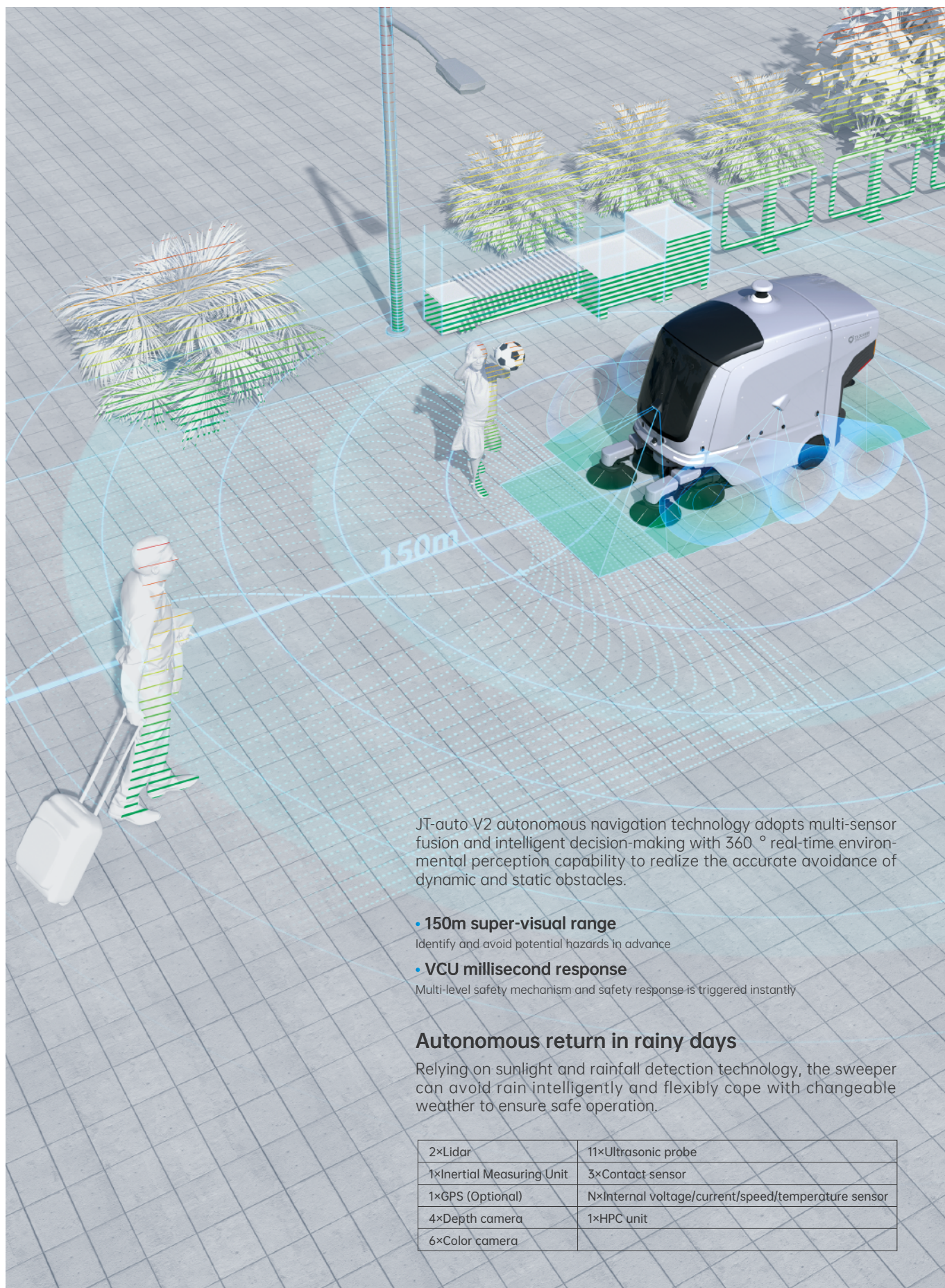


📋 Patrol cleaning wherever needed

Automatically identify garbage and regulate cleaning movements in real time to achieve refined operations in large scenes. Adapting to the cleaning needs of different scenarios, the efficiency is greatly improved.

📋 Resume cleaning from break-point, intelligent and efficient

Provide water/power or change trash can when the cleaning program is paused and the sweeper resumes cleaning from break-point to avoid repeated work or omission.



JT-auto V2 autonomous navigation technology adopts multi-sensor fusion and intelligent decision-making with 360 ° real-time environmental perception capability to realize the accurate avoidance of dynamic and static obstacles.

- **150m super-visual range**

Identify and avoid potential hazards in advance

- **VCU millisecond response**

Multi-level safety mechanism and safety response is triggered instantly

Autonomous return in rainy days

Relying on sunlight and rainfall detection technology, the sweeper can avoid rain intelligently and flexibly cope with changeable weather to ensure safe operation.

2×Lidar	11×Ultrasonic probe
1×Inertial Measuring Unit	3×Contact sensor
1×GPS (Optional)	N×Internal voltage/current/speed/temperature sensor
4×Depth camera	1×HPC unit
6×Color camera	

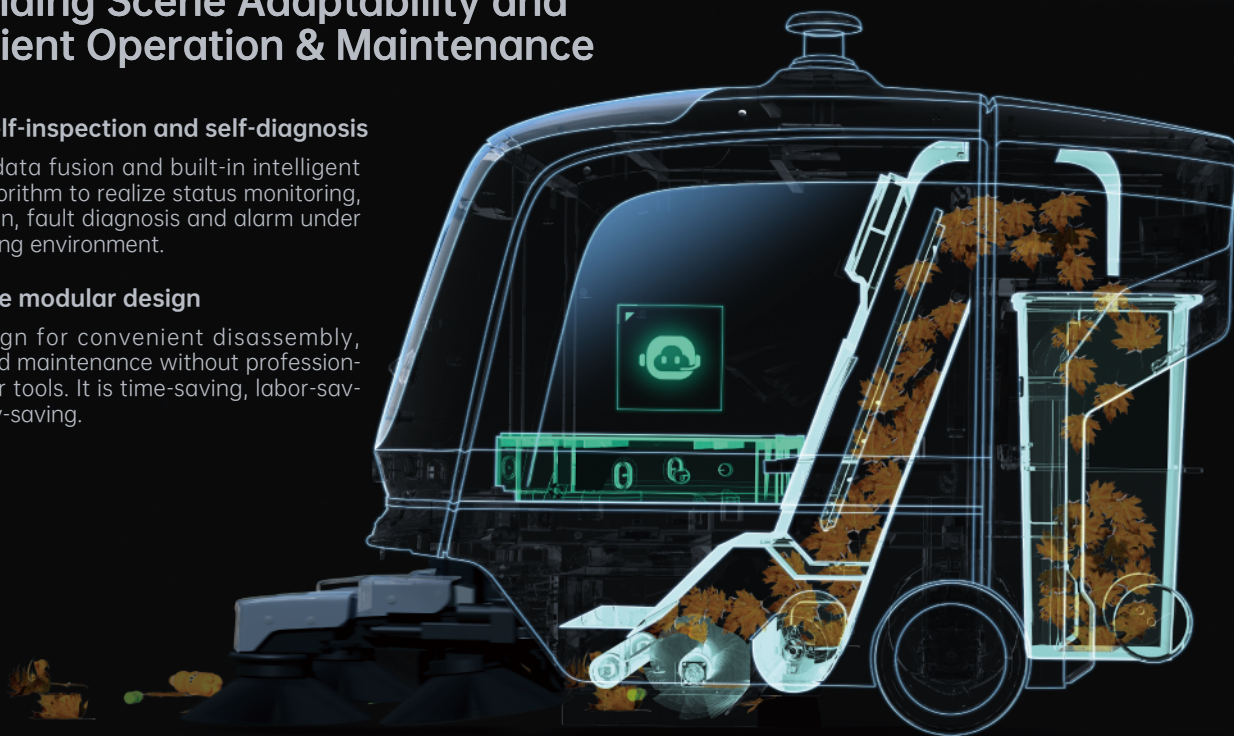
Outstanding Scene Adaptability and Convenient Operation & Maintenance

Intelligent self-inspection and self-diagnosis

Multi-source data fusion and built-in intelligent diagnostic algorithm to realize status monitoring, wear prediction, fault diagnosis and alarm under complex working environment.

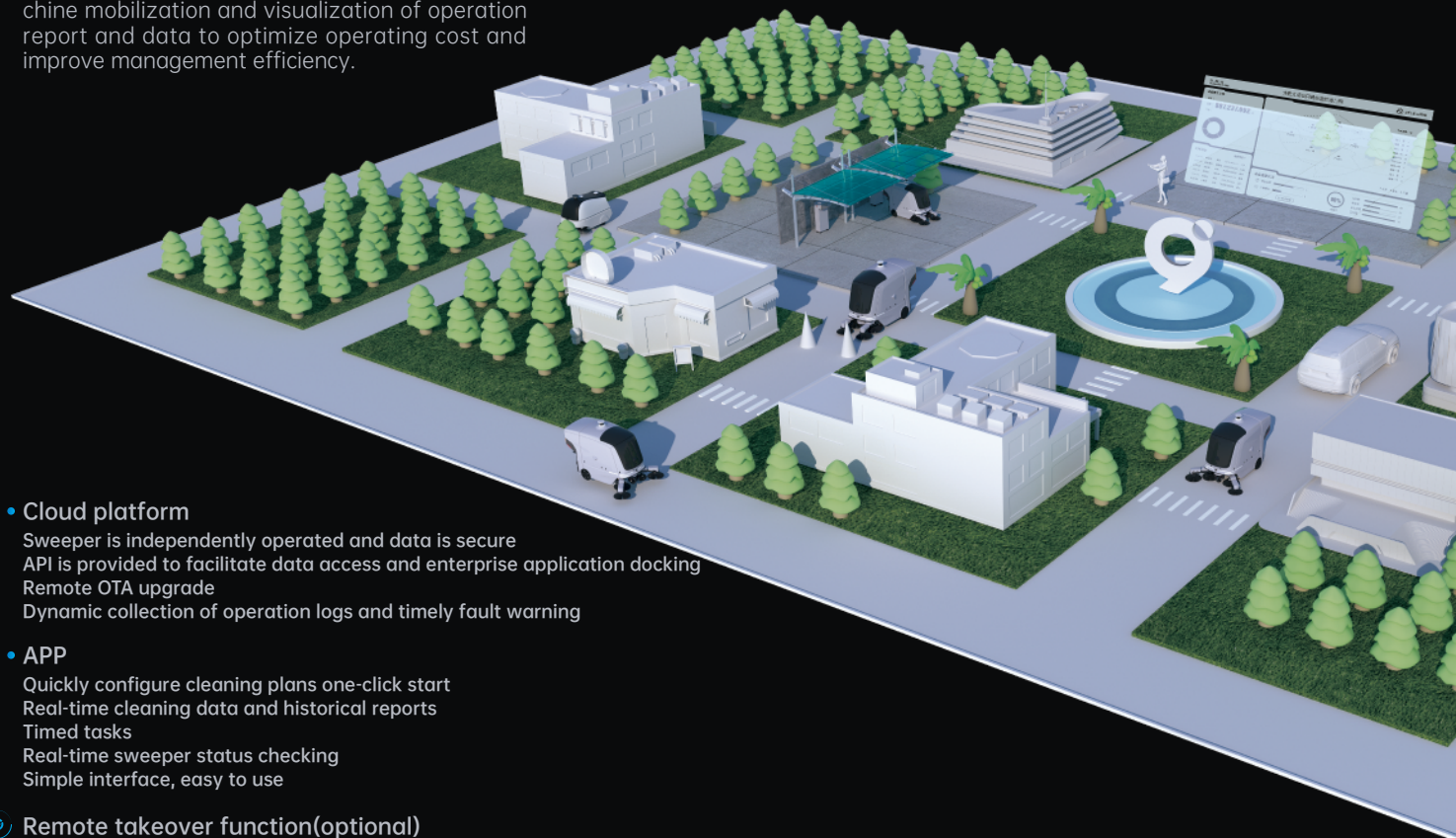
Vehicle-grade modular design

Modular design for convenient disassembly, installation and maintenance without professional personnel or tools. It is time-saving, labor-saving and money-saving.



Smart Cloud Control to Improve Management Efficiency

APP, cloud platform and sweeper are linked together to realize remote monitoring, multi-machine mobilization and visualization of operation report and data to optimize operating cost and improve management efficiency.



Cloud platform

- Sweeper is independently operated and data is secure
- API is provided to facilitate data access and enterprise application docking
- Remote OTA upgrade
- Dynamic collection of operation logs and timely fault warning

APP

- Quickly configure cleaning plans one-click start
- Real-time cleaning data and historical reports
- Timed tasks
- Real-time sweeper status checking
- Simple interface, easy to use

Remote takeover function(optional)

Standard 4G/5G wireless communication and remote driving unit, which support remote access, diagnosis, takeover and extrication at anytime and anywhere to ensure uninterrupted cleaning for 7×24h.(This function is a paid optional function).

Application Scenarios And Applicable Road Surfaces



Park Square



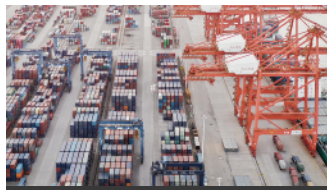
Municipal roads



Large Warehouse



Technical Park



Transportation Hub



Tourist Attractions



Campus



Industrial Park



Square brick



Cement floor



Plastic runway



Asphalt floor



Cobblestone floor



Epoxy floor



Granite floor



Rubble floor

Product Parameters			
Structural Parameters		Running Performance	
Dimensions (L*W*H)	2270mm×1050mm×1710mm	Running slope	0~12°
Full load weight	450kg	Ditch crossing ability	0~70mm
Cleaning Parameters		Bump crossing ability	0~50mm
Trash can capacity	120L	Operating noise	≤70dB
Cleaning width	1000~1800mm	Turning radius	≥1800mm
Maximum cleaning efficiency	Up to 10000 m ² /h	Wading ability	0~100mm
Cleaning speed	0~5km/h	Control mode	Autonomous driving/Remote control/Remote takeover
Trash dumping	Automatic loading/unloading of trash can	Max. running speed	2.2m/s
Dust Control Parameters		Electrical Parameters	
Water tank volume	50L	Battery type/capacity	Lithium iron phosphate battery (48V, 150AH)
Duration of continuous spraying	90min	Charging mode/time	Manual/Auto (2~3h)
Water filling method	Manual/Auto	Battery life	4~6h
Dust filtering system	Auto dust vibration	Communication mode	4G/5G
Maintenance Parameters			
Program upgrade method	OTA upgrade	<p>* The data in the table are theoretical values, which are obtained by the internal laboratory of JT-Innovation in a specific test environment and may be slightly different in actual applications due to individual differences, operating conditions and environment. Please refer to the actual application situation.</p> <p>* JT-Innovation (Guangdong) Intelligent Technology Co., Ltd. reserves the right for final interpretation.</p>	
Protection function	IP43, multi-level safety sensing, anti-fall detection and emergency stop control.		
Operating environment	Temperature: -10°C ~ +60°C Humidity: 20%~75% RH (No condensing)		
Storage environment	Temperature: - 25°C ~ + 60°C Humidity: 20% ~ 93%RH		



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