Jtibot

AUTONOMOUS DRIVING MOWER
Blade

AI CREATES A NEW ECOSYSTEM

AUTONOMOUS DRIVING

Autonomous driving

Adjustable mowing height

50000m²
Single charge operation

4H
Long battery life

≤25°
Large slope operation

High-performance AI chip
Automatically generate paths by LiDAR

The Autonomous Driving Mower Blade is equipped with the self-developed JTIBOT autonomous driving system and is a smart device designed for large-scale lawn maintenance. Relying on advanced autonomous driving technology, combined with high-precision positioning and intelligent algorithms, it can autonomously plan the optimal mowing path and accurately cover the lawn area without manual driving. Whether it is a municipal park, golf course, or a large lawn in a large park or high-end residential area, it can operate efficiently, automatically avoid obstacles, and continue mowing at breakpoints, greatly improving lawn maintenance efficiency, easily coping with various scenarios, and making lawn management smarter and more convenient.

Autonomous driving Lawn Mowing Robot Applying space-grade navigation technology to mowing lawns

Intelligent obstacle avoidance

5G Network

Low noise operation

►► PRODUCT FUNCTION

AI planning and decision-making, 360° security protection

Precise positioning

Multi-source fusion positioning (RTK + vision + inertial navigation), centimeter-level accuracy, can accurately identify boundaries in complex environments (tree occlusion, undulating slopes), and say goodbye to the embarrassment of "manual line inspection and route deviation"

Intelligent obstacle avoidance

AI visual algorithm + multi-sensor fusion (LiDAR, ultrasonic), real-time identification of pedestrians, pets, stones and other obstacles, dynamic path planning, zero collision, zero jam, fully ensuring outdoor work safety

Autonomous decision making

APP remote settings, automatically generate the optimal operation path (bow shape, back shape, etc.), support "Breakpoint recovery mowing" and "zoning operation", and one-click adaptation of complex terrain (slopes, terraces, garden shaping areas)

Remote control

Operation efficiency

The average coverage area is 2-3 times that of traditional lawn mowers (60,000-100,000 ㎡ of commercial lawn can be covered in a single day). One robot can complete the work of 3-5 people, greatly improving work efficiency.

Timed task

Supports "Timed task " and "night operation" (low noise design), staggered maintenance without disturbing residents

Remote management

Automatic charging + power/fault self-checking, remote reminder, unmanned management, and reduced management costs (especially suitable for long-term maintenance scenarios such as commercial parks and municipal greening)

Suitable for all terrains

Professional scenes

Golf courses (fine pruning, error ⩽ 1cm), Football fields (efficient maintenance of trample-resistant grass species), Large nurseries (zoning operations + adaptation to different grass heights)

Municipal scene/property scene

Park greenway (long-distance continuous operation + automatic obstacle avoidance for pedestrians),High-end residential area (quiet operation at night + landscape-level flatness),Industrial park (adaptability to harsh environments + cost reduction)

Special terrain

Sloping orchard (stable operation on 25° steep slope)
Terrace tea garden (replacing dangerous manual operations)
Courtyard garden (precise coverage of complex shaping areas)

Energy saving and environmental protection

Zero Carbon Emission

Pure electric drive, replacing fuel-powered models, reducing carbon emissions (single unit annual emission reduction of more than 2 tons), suitable for "carbon neutral" parks, ecological scenic spots and other policy-sensitive scenarios

Reduce chemical pollution

Reducing the use of pesticides and herbicides through precise maintenance can reduce the pollution of chemical substances to soil microorganisms and groundwater.

Low operating noise

Operating noise ⩽ 85dB, say goodbye to the complaints of "noise disturbing people" of traditional lawn mowers, friendly to high-end communities and campus scenes

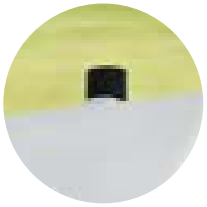
►► FUNCTIONAL MODULES

Radar perception

Control buttons

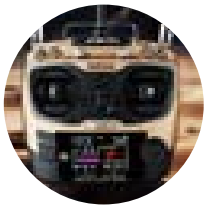
Cutting blade

RGBD Camera



Multi-line LiDAR

GPS positioning



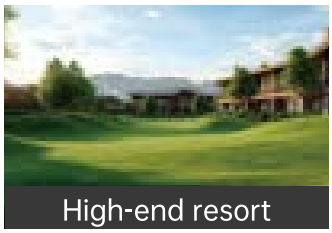
remote controller

Night light

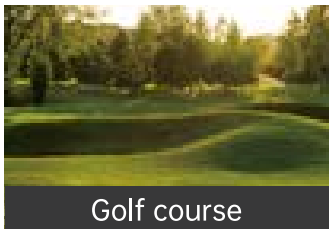
emergency braking

►► APPLICABLE SCENARIOS

Wetland park

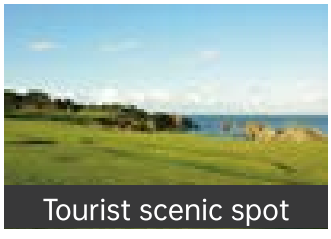


High-end resort



Golf course

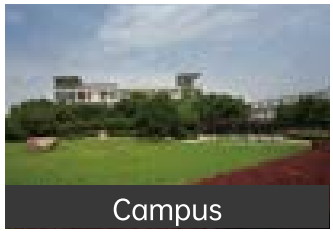
Airport runway lawn



Tourist scenic spot

Enterprise park

Municipal scene



Campus

Product Parameters

Product Overview	Product size	2198*1550*1049mm(L*W*H)
	Weight	440kg
	Maximum allowed total weight	680kg
	Wheelbase	1490mm
	Front wheel base	988mm
	Rear wheel base	1140mm
	Front wheel size	13*6.5-6 inches
	Rear wheel size	23*10.5-12 inches
	Cutter shifting	Manual shifting, automatic shifting(optional)
	Blade tip Speed	⩽18,445 ft/min

Electrical Parameters	Power type	Electric
	Battery type	Lithium iron phosphate battery
	Battery capacity	64V 230AH
	Charging method	Wired charger charging
	Charging time	Regular charger 6H,Fast charge 2H
	Communication	4G/WIFI
	Diagnosis	Online Diagnosis

Mowing Performance	Applicable area	Home use scenarios and commercial use scenarios with an area of 20,000 square meters or more
	Maximum speed	14km/h
	Cutting width	60inches（152cm）
	Cutting height	1.5 inches to 5 inches, adjustable in multiple levels 3.81cm to 12.7cm, adjustable in multiple levels
	Working battery life	4~6H
	Mowing area per charge	50000㎡

Operational Performance	Maximum Climbing ability	25°
	Maximum Obstacle crossing ability	10cm
	Maximum Ditch crossing ability	20cm
	Obstacle avoidance ability	Automatic obstacle avoidance
	Maximum braking distance	2.8m
	Drive mode	Front wheel steering Rear wheel drive+Turn on the spot
	Minimum turning radius	0m

Intelligent Performance	Control Mode	Autonomous driving/remote driving/manual driving
	Remote control method	2.4GHz/Bluetooth remote control, 5G remote driving system control
	Positioning capability	Visual + RTK integrated for main navigation, LIDAR for assistant navigation
	Mapping capabilities	Map selection and construction or manned driving to collect and build
	Interaction Buttons	Touch screen interaction

Other Parameters	Equipment life	Battery life of 3000 charge and discharge cycles, machine life of 5 years
	Warranty	1 year
	Upgrade Mode	OTA

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