FJDynamics

Farm Concepts



FJD FR4000

ROBOTIC LAWN MOWER

MAP BEYOND LIMITS, MOW AS YOU WISH

Powered by industrial RTK technology and a smart vision system, the FJD FR4000 robotic lawn mower defines virtual boundaries and ensures centimeter-level accuracy in positioning, eliminating the need for wires.



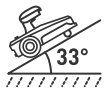
Industrial RTK
At Least 1km Coverage



No Perimeter Wires



Mow Up to
4000m² (1 acre)



Max Slope Up to
33° (65%)



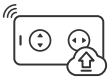
Smart Vision
System



Route Planning and
Auto-recharging



Multi-zone and
No-go zone
Management



App Control and
OTA Updates

RTK POSITIONING MODES TAILORED TO YOUR NEEDS

Radio RTK mode

Achieve centimeter-level positioning accuracy with a reliable signal coverage range of at least 1 km. In this mode, the RTK reference station can be connected via Wi-Fi without data costs. As a leading global brand, FJD's industrial RTK is widely used in precision agriculture, geospatial, digital construction, and professional landscaping.



Network RTK mode

Remove the need for an RTK reference station, offering a versatile alternative to fulfill your flexible RTK connection needs. In this mode, you can effortlessly deploy your mower and set it in motion without additional setup.



SMART VISION SYSTEM BASED ON RGB CAMERA AND STEREO CAMERA

Intelligent boundary recognition

Recognize the grassland and establish optimal boundaries for every section of your lawn to deliver a remarkable level of precision.



Real-time object detection and avoidance

Feature a stereo camera, an RGB camera and a front bumper, guaranteeing superior object detection and avoidance.



Enhanced vision navigation

Navigate seamlessly with visual SLAM technology in challenging environments, ensuring uninterrupted operation even in areas with weak RTK signals.



STAND OUT IN PERFORMANCE

Max slope 33° (65%) to handle tricky terrains at ease

Conquer steep slopes with an impressive 33° climbing ability, handling inclines of up to 65% effortlessly.



Better protection with a built-in rain sensor and IPX5 waterproof

Design with a rain sensor to pause mowing and guide the mower back during rainfall, and build with IPX5 waterproof to protect the mower from water damage.



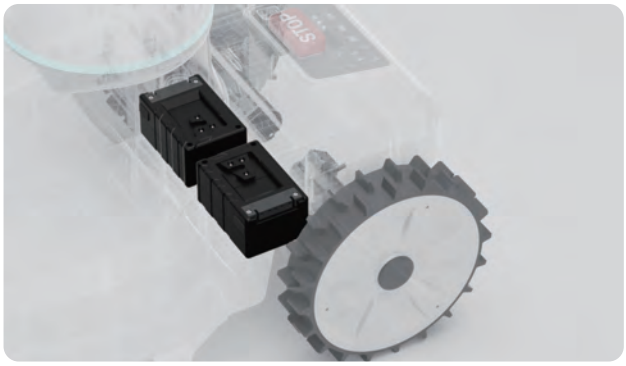
Security system for anti-theft

Come with a combination of PIN access, alarm features, charging station pairing, and GPS theft tracking to provide robust security.



190Wh capacity for long-lasting uses

Enjoy up to 180 minutes of mowing time per full charge, maximizing productivity for uninterrupted lawn care.



PERSONALIZED MOWING EXPERIENCE

Set mowing schedule

Define your lawn mow schedule, and the the FR4000 will handle the rest around the clock.



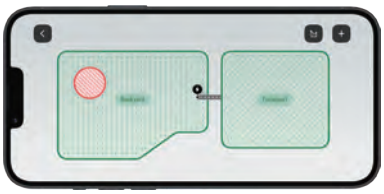
Adjust cutting height

Set the perfect cutting height from 10 to 50 mm for different areas to suit your needs.



Select mowing modes

Select different modes like parallel stripes for greater mowing efficiency.



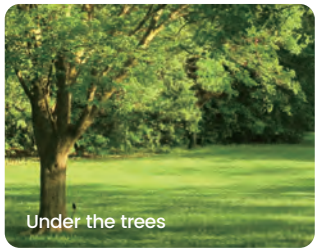
Manage multi-zones and no-go zones

Customize mowing zones with tailored cutting heights and schedules while designating no-go zones to avoid specific areas.



PRECISE POSITIONING & NAVIGATION IN CHALLENGING AREAS









SPECS

Capacity

Max mowing size	4000 m² (1 acre)
Boundary type	Virtual boundaries (No perimeter wire)
Net weight	13.3 kg
Dimension	645 mm × 444 mm × 420 mm / 25.4 in × 17.5 in × 16.5 in
Max climbing ability	33° (65%)
Max multi-zone management	Supported
No-go zone management	Supported
Engine	Rear-wheel-drive
Rain sensor	Supported
Suggested working temperature	0-55 °C
Waterproof level (mower, charging station, and RTK reference station)	IPX5, IP65, IP67

Positioning & Navigation

Industrial RTK & enhanced vision	Supported
Radio RTK mode & network RTK mode	Supported
User interface	Keyboard & APP control
Firmware update	APP update through OTA
Connectivity	4G & Wi-Fi & Bluetooth

Cutting System

Cutting width	255 mm / 10 in
Cutting height range	10-50 mm / 0.4-2 in
Mowing speed range	0.3-0.5 m/s
Blade speed range	High, middle, and low
Blade type	6 pivoting stainless steel blades
Cutting mode	Parallel stripes with a specific angle

Product Safety

Object detection & avoidance system	Stereo camera&
	RGB camera & physical bumper
Lift sensor	Supported
Security System	PIN access, alarm, charging station pairing,
	GPS theft tracking
Tilt sensor	Supported

Battery & Charging

Dual battery capacity	190 Wh
Battery type	Lithium-ion battery
Charging mode	Automatic & manual
Auto-recharging	Supported
Mowing time per full charge	180 min
Charging time	120 min

Farm Concepts

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