

ATRONEX

Empowering Intelligent Autonomy

Terra

Residential Autonomous Mower - Technical Specifications

Terra is a compact autonomous robot mower designed for residential gardens up to 2.5 acres. Featuring AI-powered navigation, multi-zone management, and seamless smart home integration, Terra delivers a perfect lawn with zero effort.

General Specifications

Specification	Value
Maximum Coverage	2.5 acres
Cutting Width	22 cm
Cutting Height	Adjustable
Battery Capacity	5-10 Ah lithium
Runtime	2-4 hours continuous
Charging	Auto-return to station
Noise Level	< 60 dB
Weather Rating	IPX5 (works in rain)

Navigation Technology

Specification	Value
Navigation System	VSLAM + RTK + IMU Fusion
Boundary Setup	No wire required
Multi-Zone Support	Yes - separate schedules per zone
Map Storage	Cloud-based, unlimited zones
Charging Station Range	Up to 4,000 yards
Coverage Efficiency	99.5%
Straight Line Accuracy	< 1 inch deviation per mile

Smart Features

- Smart home integration (Alexa, Google Home, Apple HomeKit)
- Weather-aware scheduling - pauses for rain, resumes after
- Video surveillance - monitor your lawn remotely
- Dynamic edge trimming - protects plants and landscaping
- Narrow passage navigation - width + 4 inches minimum
- Intelligent route planning - energy-efficient coverage
- Automatic supplementary mowing for missed spots
- Zero emissions - latest lithium battery technology

Safety & Security

Feature	Description
Child-Proof	Sensors detect and avoid children
Pet-Proof	Safe around dogs, cats, and wildlife
Lift Protection	Blades stop when lifted
Tilt Protection	Automatic shutdown on tip-over
Collision Detection	Gentle bump sensors

Geofence	Virtual boundary enforcement
Anti-Theft Alarm	GPS tracking + alerts
PIN Code Protection	Prevents unauthorized use