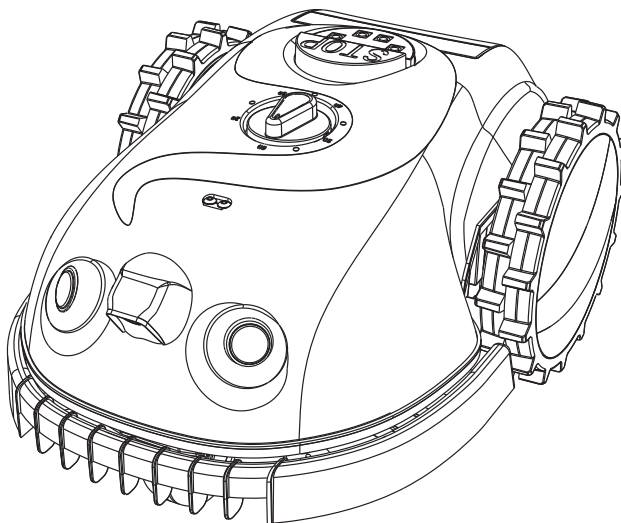




ROBOTIC LAWNMOWER

User Manual

V100



Read the User Manual carefully before use.
Make sure you understand all the instructions and safety warnings



Thank you for choosing the V100 Robotic lawnmower.

The product is light weight and works on the lawn without damaging the lawn.

Collection of grass is not necessary because the fine grass clippings can serve as a natural fertilizer.

Attention!

The lawnmower belongs to the category of lawn maintenance robots. Prior to use, it is necessary to clear away any debris such as stones or tree branches on the lawn. Additionally, grass taller than 15cm should be manually cleared with a grass cutter before operation.

WARNING! Any other improper use can cause danger even personal injury.

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1. SAFETY WARNINGS

1.1 Important

READ CAREFULLY BEFORE USE. KEEP FOR FUTURE REFERENCE.

- Be sure to install and operate the mower according to the instructions.
- The mower has many built-in safety sensors, but safety risks still exist. Inform your family and neighbors about the risks for accidents or hazards.
- When using the mower on a public lawn, or when your lawn is open to your neighbor or street, protect or fence the lawn, or put up a warning sign around the working area that says.

WARNING! Automatic lawnmower! Keep away from the machine! Supervise children!

- DO NOT repair the mower by yourself. Repair may interfere with the mower operations, resulting in serious injury and damage.
Please contact a qualified specialist and use the approved parts and accessories.

WARNING

Never allow children, persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge or people unfamiliar with these instructions to use the machine. Local regulations may restrict the age of the operator.

Before Mowing:

- Before each mowing session, check that all parts of the mower can function normally.
- For the best mowing results, it is recommended to mow in dry weather. Mowing in the rain can make the grass stick on the product and the mower may slip. DO NOT mow in bad weather such as heavy rain, thunderstorm, or snow.
- Periodically inspect the area where the machine is to be used and remove all stones, slickwires, bones, and other foreign objects. The Limited Warranty does not cover damages caused by objects left on the lawn.
- To avoid possible damage, keep the operating mower at least (1 m) (3.2 feet) away from sprinkler heads. The mower and the sprinkler should NOT work simultaneously. Time the mower so that it works at a different time from the sprinkler.
- NEVER allow children to touch the power supply unit, charging station, blades, the battery compartment, or any parts with gaps such as the wheels.
- Keep away from the rotating blades! DO NOT put hands or feet under or near the rotating blades.
- Watch out for throwing objects! Keep a safe distance from the mower when operating.
- DO NOT leave the machine to operate unattended if you know that there are pets, children or people in the vicinity.

- DO NOT overreach. Always keep your balance and be sure of the footing on slopes. Walk, never run while operating the machine or its peripherals.
- Instructions on when, where, and how to inspect the machine and its peripherals, connecting cords, and extension cords for signs of damage or aging and, if permitted, how to make repairs.
- A note not to connect or touch a damaged connection line to the power supply before it is disconnected from the power supply, because damaged connection lines can lead to contact with active parts.
- Connect the machine and/or its peripheral devices only to supply circuits protected by protected by a residual current device with a tripping current of not more than 30 mA
- The device must not be used at altitudes higher than 78740.15 inch(2000 m).
A note not to lean forward when operating the machine and its peripherals, and always to maintain balance and a firm footing on slopes; and always to walk and not to run.

WARNING! If the mower makes an abnormal sound, abnormally vibrates, or signals an alarm, press the STOP button immediately.

WARNING! DO NOT touch moving dangerous parts before the mower is powered off.

WARNING! Do not touch moving dangerous parts before they have come to a complete standstill.

WARNING! Ensure that you always wear sturdy shoes and long trousers when operating the machine.

WARNING! Cut off the power:

Before blocking it.

Before the machine is tested, cleaned, or processed.

Before cleaning foreign objects in the machine.

When the machine starts to shake violently, please stop the machine immediately for inspection.

1.2 Symbols and decals

Please study the symbols on the product and labels carefully and understand their meaning.



⚠ WARNING-Read instruction manual before operating the machine.



⚠ WARNING-Do not touch rotating blade.



⚠ WARNING-Keep a safe distance from the machine when operating.



⚠ WARNING-Do not ride on the machine.



⚠ Remove (or operate) the disabling device before working on or lifting the machine.*
*Make sure the mower is locked by the PiN code before lifting or operating.



⚠ WARNING-It is not permitted to dispose of this product as normal household waste. Ensure that the product is recycled in accordance with local legal requirements.



This product conforms to the applicable Ec Directives.



This product conforms to the regulations of Restriction of Hazardous Substances.



Before charging, read the instructions.



Class II appliance.



SMPS incorporating a short-circuit-proof safety isolating transformer (inherently or non-inherently).



SMPS (Switch mode power supply unit).



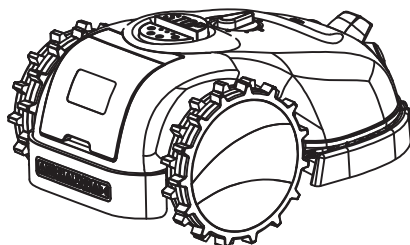
Direct current.



Alternating current.

2. PACKAGE LIST

Mower * 1pc



Battery charger * 1pc



Battery*1pc



Cutting Blades * 3pcs



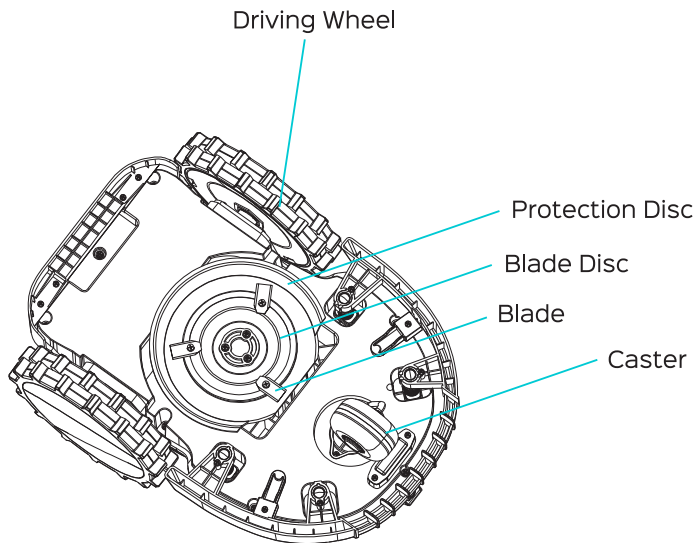
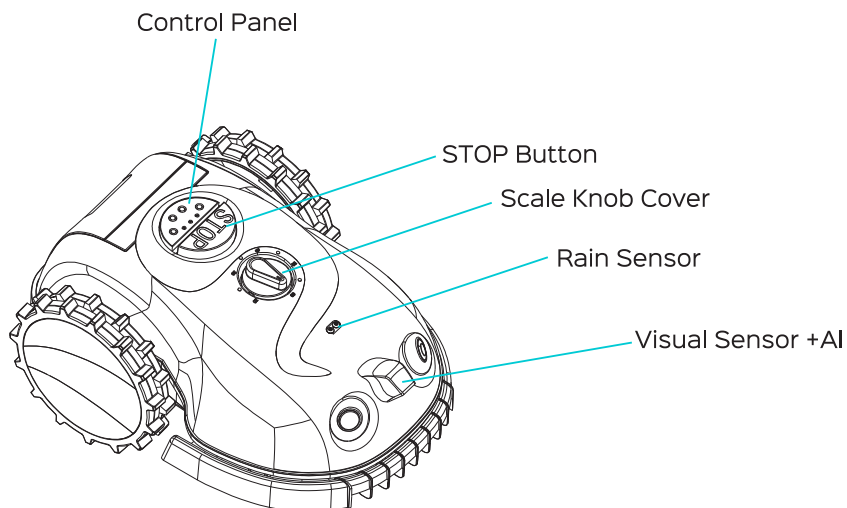
M4 screws of cutting blade
* 3pcs



Instruction * 1pc



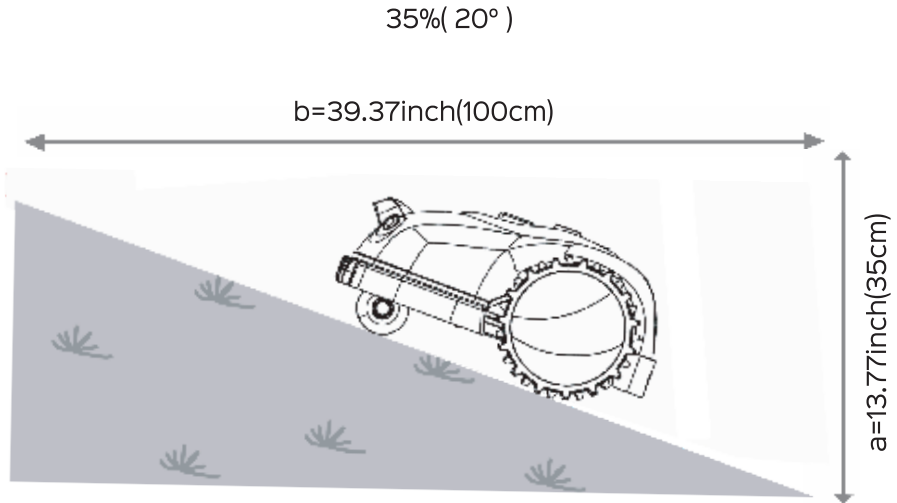
3. PRODUCT EXTERNAL OVERVIEW



4. PLANNING AND PREPARATION

4.1 Climb lawns up to 20° (35%)

Ensure that the following conditions are met in the working area of the mower:



(Fig.4-1)

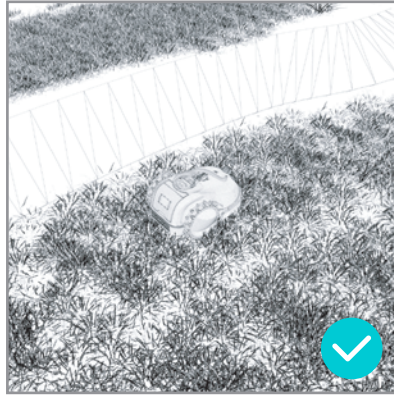
- The height of grass is no more than 5.9inch(15cm).

NOTE: If the original grass is higher than 5.9inch(15cm), please use a manual mower to cut your lawn in advance.

- No stones, loose pieces of wood, wires, live cables, and other foreign objects.
- Level and flat working area, no ditch or trench, slope less than 20°(35%).

4.2 For a lawn with clear lawn boundaries

- The YARDCARE V100 is designed for small residential lawns with clearly defined boundaries (Fig.4-1), such as those bordered by concrete paths, fences, crossroads, or flowerbeds.
- For lawns with unclear boundaries, such as those blending seamlessly into surrounding weeds (Fig.4-2), the machine may lose direction and be unable to operate properly.
- To enhance boundary clarity, it is recommended to purchase additional magnetic strips to clearly define the perimeter (Fig.4-3). (Magnetic strips are not included with the machine and must be purchased separately.)



(Fig.4-1)



(Fig.4-2)



(Fig.4-3)

5. HOW IT WORKS

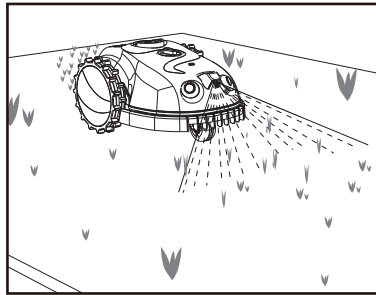
5.1 How to mow

●YARDCARE V100 is equipped with a bumper sensor, visual sensor, and AI technology, enabling the robot to navigate and mow the lawn efficiently using its visual capabilities. At the same time, it disperses fine grass clippings back onto the lawn to nourish the grass (Fig.5-1).

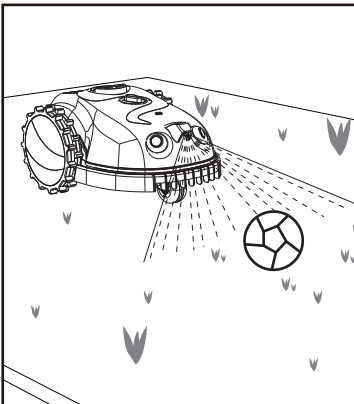
5.2 How to avoid obstacles

●When the camera detects an obstacle ahead, the machine will automatically navigate around it (Fig.5-2).

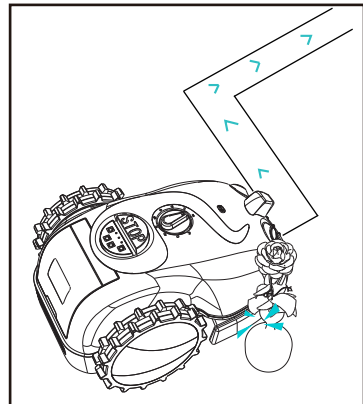
●If an obstacle is in the machine's blind spot, it will adjust its path after making contact (Fig.5-3).



(Fig.5-1)



(Fig.5-2)



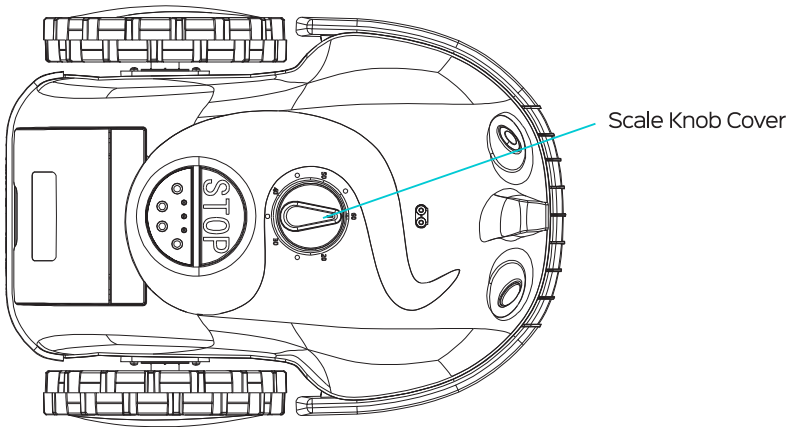
(Fig.5-3)

6. OPERATION

6.1 Adjust the cutting height

Before mowing for the first time, please set the mowing height to 2.36 inch(60 mm), and then adjust it to the desired height when the whole lawn is relatively flat.

- Clockwise rotation to increase the cutting height.
- Counterclockwise to decrease the cutting height (Fig.6-1).
- The cutting height of the mower can be adjusted from MIN [0.78 inch(20mm)] to MAX [2.36 inch(60 mm)].



(Fig.6-1)

6.2 Instruction of control panel



- Long press the power button  to start.
- Enter the loading interface . The three indicators flash one by one, and the mower is in initialization state for about 15 seconds.

6.3 Straight mowing mode

- When the indicators do not flash, the mower is in standby mode. Press the start button , the alarm indicator  green light  and press OK button. At this time, the mower rings three time di-di-di. the mower start to mowing.

6.4 Spiral mowing mode

- Press the spiral mowing button , the spiral indicator light  will light up, then press the ok button . At this time, the mower rings three time di-di-di, the mower start to mowing.

6.5 The power indicator

- When the battery power is more than 20%, the green light  .
- The battery power is less than 20%, the red light , the mower stop work and need to charge.
- The battery pack is less than 5%, the mower can not work.

6.6 The alarm indicator

- When the lawn mower encounters an error, the red light  turns on. Press the ok button  or STOP button can clean errors.
- When the mower has a serious error, the red light  flash, the mower must be restarted.

6.7 Error message

Error codes (1-5) cannot be cleared and must be restarted. Error codes (6-9) can be cleared by pressing the "STOP" button.

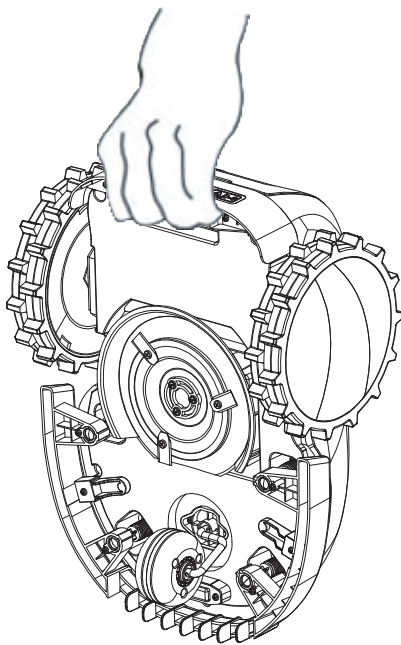
Error code	Error type
1	Gyroscope initialization error
2	Initialization (Hoare) failed
3	Mower motor communication error
4	High temperature warning
5	Camera communication error
6	Tilt alarm
7	Ground alarm
8	Boundary out alarm
9	Mower trapped alarm

6.8 Turn off the mower

● Press “STOP” to stop the mower, long press power button to stop, turn off the main power if needed.

6.9 Carry the Mower

● Under the mower, a lifting handle is reserved for easy one-handed handling of the mower (Fig.6-2).

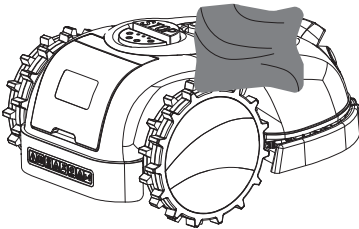


(Fig.6-2)

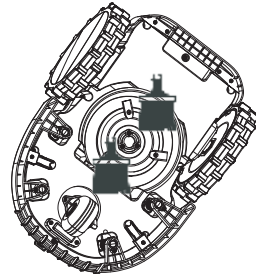
7. MAINTENANCE

WARNING! Always switch the mower off before cleaning and maintaining the mower.
WARNING! Always wear protective, heavy gloves when changing the blades and cleaning the underside of the mower.

- Regularly check screws and nuts for proper tightness. Maintain or replace defective parts to ensure safety.
 - Regular inspect the blades to ensure free rotation.
- NOTE:** When turning the mower over, place it on the lawn or a softer surface to avoid wearing and scratching the cover.
- Use a soft brush or towel to clean the front part (Fig.7-1, Fig.7-2).
 - Use a hard brush to clean the grass clippings and debris from the blades, wheels, and other parts on bottom.
 - Regularly check the rain sensors and wheels for mud or grass clippings and clean them with a brush.



(Fig.7-1)



(Fig.7-2)

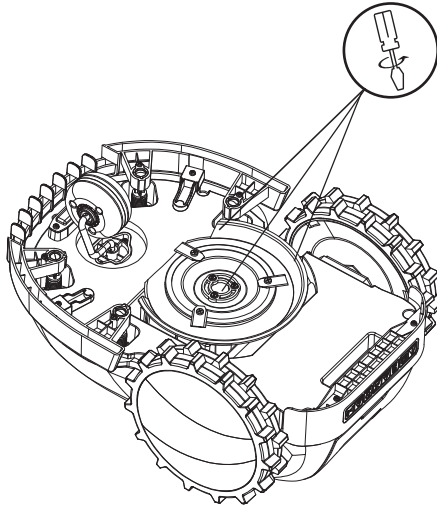
● **NOTE:** Regularly clear the weeds at the bottom of the mower, to avoid affecting the mower efficiency.

7.1 Replace the blades

WARNING! Turn off the main power switch and put on protective gloves first.

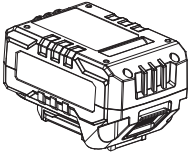
WARNING! Only use the original and designated blades as approved.

- Replace all three blades and their screws at the same time when replacing (Fig. 7-3).
- Use a screwdriver to loosen or fasten the screws.
- Check if the new blades can pivot freely.

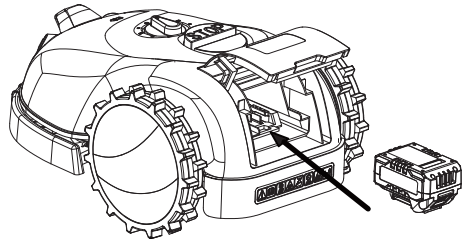


(Fig.7-3)

7.2 Battery pack and charger



(Fig.7-4)



(Fig.7-5)

A: Charging the battery.

Fully charge the battery before the first use. A fully discharged battery pack with a temperature between 0 °F (0 °C) and 104 °F (40 °C) will charge in about 2 hours.

- Charge the battery pack only with the correct charger(Fig.7-4).
- Connect the charger to a power supply.
- Insert the battery pack into the charger, making sure the battery pack is fully seated.
- The red light ● on while the battery pack is charging. After charging completed, the green light ● on.
- After approximately 2 hours, battery is fully charged.

⚠ Unplug the charger, and then remove the battery pack.

⚠ WARNING: Never use a damaged battery pack.

⚠ WARNING: Always disconnect the charger from the power source when it is not in use.

NOTE: The battery pack and charger will become slightly warm to the touch while charging. This is normal and does not indicate a problem.

NOTE: If you wish to charge two battery packs in succession, unplug the charger and allow at least 15 minutes between charges.

 WARNING

- The charger supplied is matched to the battery installed in the mower (Fig.7-5).
Do not use another charger.
- During the charging procedure, the battery warms up, this is normal.

B: Insertion and removal of rechargeable battery.

Depress the battery-release button located on the battery pack to release battery pack. Pull the battery pack out and remove it from the mower.

8. SPECIFICATIONS

Model No	V100
Feature	
Cutting Area	1076-1615 sq.ft(100-150 m ²)
Function Settings	Keyboard
Cutting Height Settings	Manually
Charging Type	Battery charger
Anti-collision Sensor	Bumper sensor +Visual sensor+AI
Safeguard	Life Stop / Tilt Stop / Emergency Stop
Battery Settings	Plugable Battery
Functions	
Boundary Collision	YES
Rain Sensor	YES
Cutting Height	0.78-2.36 inch(20-60 mm)
Cutting Diameter	6.29 inch(160 mm)
Hill Capability	Max slope 20 degree
Motor Type	2*Brushed Walking Motors + 1*Brushless Cutting Motor
Gyroscope	YES
Straight Cut mode	YES
Spiral Cut mode	YES
Emergency STOP Switch	YES
Cuts to Edge	YES
Battery	
Type of Battery	Lithium
Rated Voltage	Max 20 V
Battery Capacity	4000 mAh
Charging Time	110 mins
Average working time	70 mins
Power Adapter	
Input	100-240 V~, 50-60 Hz.65 W
Output	21 Vd.c. 2.3 A
Other Parameters	
Waterproofed	IPX4
Certificate	GS&CE&Rohs
Measurement	23.07x17.95x12.44 inch(58.6x45.6x31.6 cm)
Weight	(21.20 lbs)9.62 kg

9. WARRANTY

This Warranty covers only defects of any material or quality of the Product and components when the Product and components thereof are being used under normal and ordinary conditions.

The Limited Warranty Period of one year commences on the date of the original purchase of the Product.

This Limited Warranty does not cover and excludes damage to your product, or any component thereof caused by:

- The normal deterioration of wear and tear parts.
- Improper battery storage or operation of the Product.
- Use of any non-original battery.
- Service, repair, and maintenance by unauthorized providers.
- Other.



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