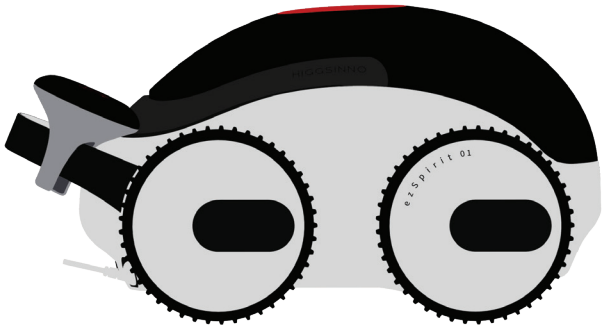
HIGGSINNO

ezSpirit 01

Higgsinno robotic pool cleaner
User Manual



Thank you for choosing Higgsinno!
Official site: www.higgsinno.com
Customer Service：support@higgsinno.com
For any inquiries, feel free to reach out to our customer service team for assistance or visit our official site to find additional information.

Tutorials:

User can access and watch instructional guide by scanning the following link or QR code to ensure proper and safe use of this product.
Scan the QR code to obtain the download address for the App.

Apple iOS

Google Play

WARNINGS AND CAUTIONS

READ AND FOLLOW ALL INSTRUCTIONS

1. Water Conditions

Use the Robotic Pool Cleaner in the following water conditions:

- Water depth: 0.4m-2m / 1.33ft-6.56ft
- Water temperature: 6° C-35° C / 43° F-95° F
- pH: 7.0-7.8
- NaCl: 5000 ppm, Max.
- Chlorine: 4 ppm, Max. 3

2. Applicable Pool Type

· Automatic cleaning mode supports slopes with angles of less than 20 degrees.

· Suitable for cleaning pool floors ranging from 10-100m² / 107.6-1076.4ft² . Supports all shapes of above-ground and in-ground swimming pools.

3. Important Safety Instructions

· Operator should keep hands away from propeller and driving mechanism.

· Ensure that children do not attempt to access Robot Pool Cleaner while it is operating.

· Keep the Robot Pool Cleaner out of the reach of children or persons with reduced physical, sensory or mental capabilities,or lack of experience and knowledge, unless they have been given supervision or instruction.

· When examining the robotic cleaner, make sure the robotic cleaner is switched OFF.

· Take the robotic cleaner out of the pool before allowing people to enter the pool.

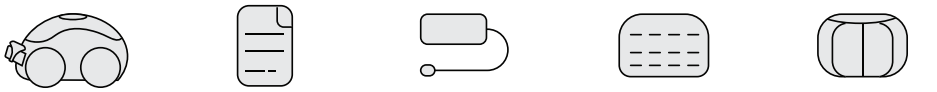
· Only original accessories must be used, at all times. Replaced by a robot cleaner certified technician, in case of need to avoid hazard.

· Do not disassemble, strike, squeeze the battery or put into fire; If severe swelling occurs, do not continue to use. Do not place in high temperature environment.

· Do not use the battery after it is soaked in water.
The operating temperature is not higher than 60 ° C.

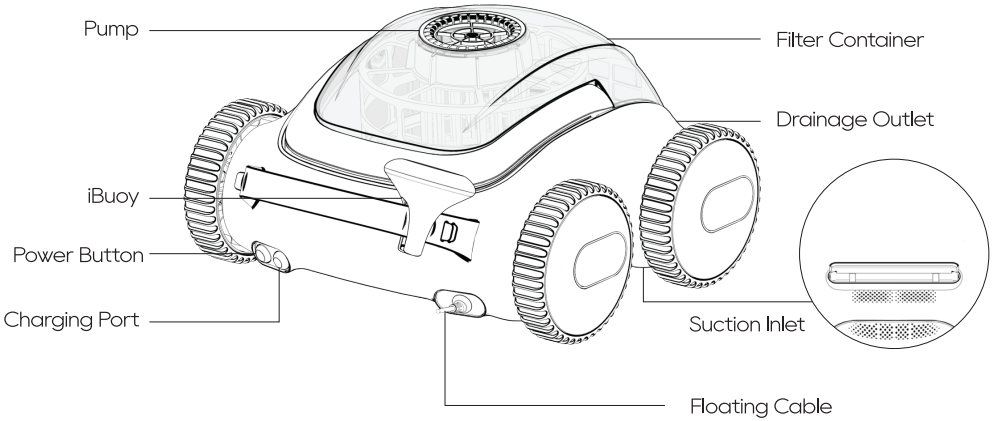
5.In the Box

a.Robotic pool cleaner parts

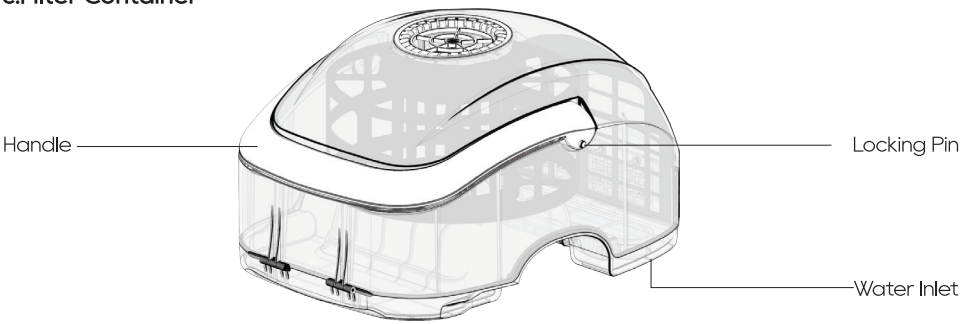


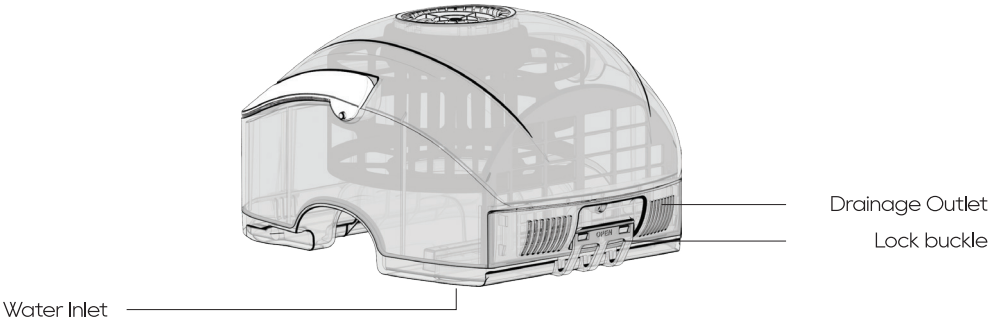
Robotic Cleaner | User Manual | Charger | Drainage Filter | Suction Filter

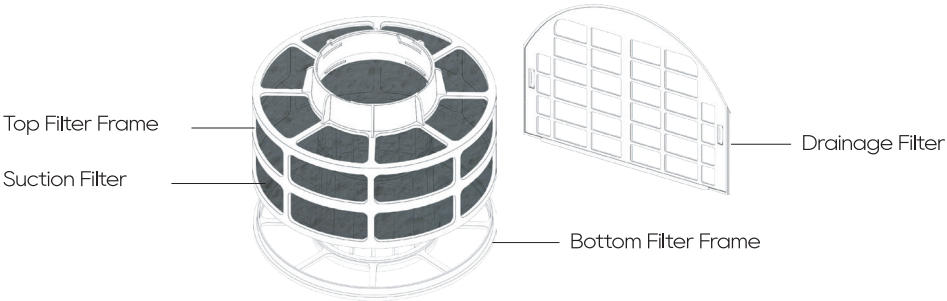
b.Robotic Cleaner

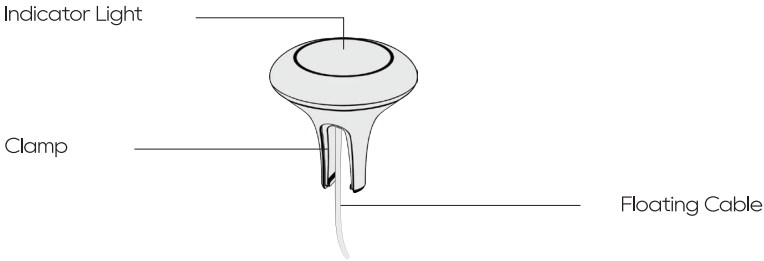


c.Filter Container




Drainage Outlet
Lock buckle
Water Inlet


Top Filter Frame
Suction Filter
Drainage Filter
Bottom Filter Frame

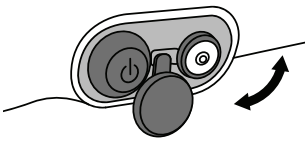

Indicator Light
Clamp
Floating Cable

Quick Start

1. Device Charging

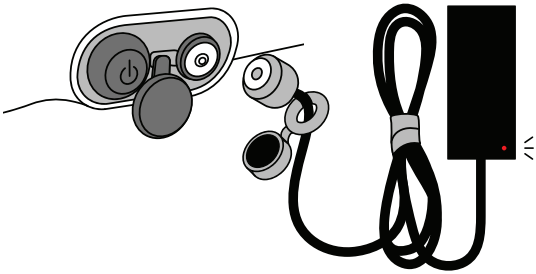
- The red light on adapter indicates charging, and it turns green when fully charged.
- Charger Input: 100~240V, 50/60Hz, charger Output: 25V/2.5A.

a



Remove the covers
from the device and adapter.

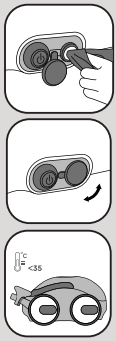
b



Connect the adapter
to the charging port for charging.

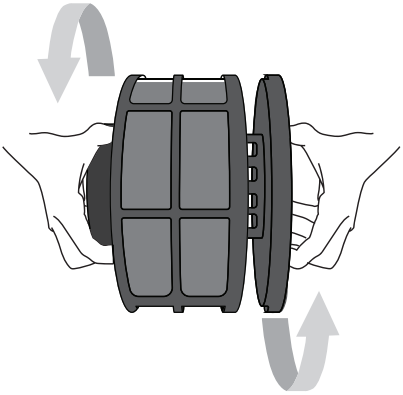
Note:

- Clean the charging ports of the adapter and device before charging.
- If metal debris adheres to the magnetic port, you can clean it with adhesive tape.
- After charging, cover the device and adapter plugs to ensure their longevity.
- It is recommended to charge indoors to avoid high ambient temperatures. (6-35° C / 43-95° F)
- It is recommended to wait at least 15 minutes after completing the work before starting the charging process.



2. Filter installation

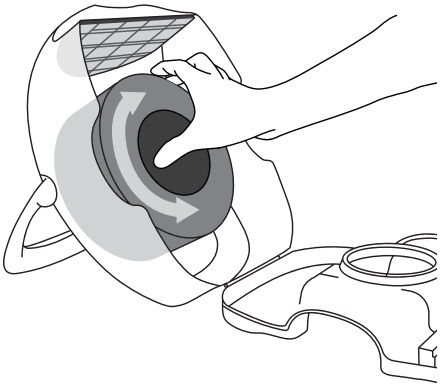
a



lock/unlock

Rotate the filter frame clockwise to unlock and counterclockwise to lock.

b



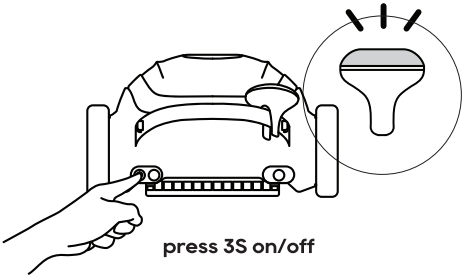
install/remove

Place the filter frame on the top of the water container and install it clockwise. Rotate counterclockwise to remove.

Note:

- Ensure that the suction filter and drainage filter are clean and not clogged during use.
- Clean the filters promptly after use.

3. Device Activation

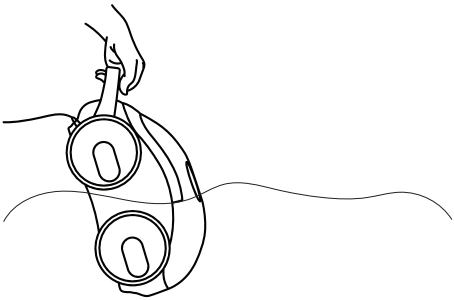


· Press and hold the button for at least three seconds to power on/off the device.
· iBuoy will flash a green light to indicate the power-on signal.
· Please place the device in the water within 1-2 minutes.

Note:

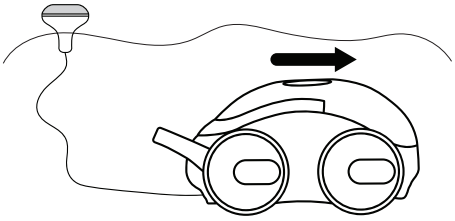
· The propeller starts at a low speed after activation, so please ensure safety.

4.Submerging the Device



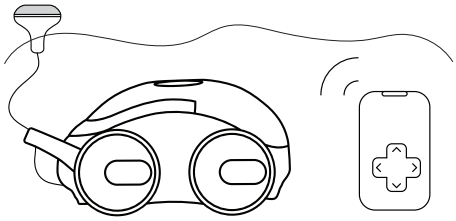
· Release the Robotic Cleaner in the pool, and let it sink to the floor of the pool.
· Ensure that the floating cable is free of any obstacles.
· The device will check if it enters water and stabilizes, then default to automatic cleaning mode.

5.Automatic Cleaning



· After turning on the device, it will enter automatic cleaning mode.
· The device will autonomously plan its cleaning route.
· By default, it will automatically return and stop next to the pool wall

6.App Connection



· Download and open the app, then search for the device.
· Connect the device to access the controller or configure task settings.

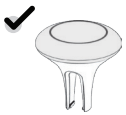
Status Indication

1. **Power On:** Green light flashing
2. **Status:**

· Working:

Steady green light

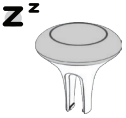
The device is performing tasks or manual operations.



· Idle:

Steady yellow light

The device automatically enters sleep mode after completing a task.

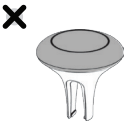


· Abnormal:

Steady red light

If a malfunction occurs, an alert will be displayed.

You can refer to the specific error message in the app and contact customer support for assistance.



3. Notifications:

· Startup failed Notification:

Yellow light flashing

If the device is not placed in water within 1-2 minutes after startup.

It is recommended to restart the device and place it in water to start working, or use the app to restart the automatic mode.

· Low Battery Notification:

Orange light flashing

Indicates low battery and the device is about to shut down. It needs to return for recharging.

· Clogged Filter Notification:

Steady orange light

Indicates a clogged filter. The water container needs to be cleared of debris and the filter cleaned.

· Obstacle Notification:

Red light flashing

Indicates that the device is trapped in the current environment and requires assistance.

The device can be controlled through the app or manually assisted to get out of the situation.

APP

i. App Instructions

The device has two modes: Automatic Cleaning and Manual Cleaning. The default mode upon startup is Automatic, but you can switch to Manual mode anytime through the App.

ii. Automatic Cleaning

Automatic Cleaning includes three types of tasks: Global Automatic Cleaning, Scheduled Cleaning, and Area Cleaning, which can be set in the App.

· Global Automatic Cleaning

1. Upon startup, the device will automatically enter Global Automatic Cleaning mode and clean the entire pool area within the working time (default 2 hours).

· Scheduled Cleaning

1. Set a specific cleaning time, and the device will stop the task at the designated time.
2. The set time can be saved in the system, and it will be the default setting for the next startup.

· Area Cleaning

1. You can choose to clean a specific area on the left or right side of the pool.
2. Move the device to the designated starting position and click "Start."
3. The device will automatically stop cleaning after the default working time.

· Disabling Automatic Cleaning

1. To disable Automatic Cleaning, and all types of automatic cleaning tasks (Global, Scheduled, and Area) will stop.

iii. Manual Cleaning

· You can manually control the device's direction of movement.
The joystick has acceleration levels for forward and backward movements.
· If the device remains stationary for 10 seconds,it will resume its previous working task.
If there is no task, it will enter idle mode.

iv. Suction power

· Boost: High-speed mode.
· Normal: Low-power mode.
· Off: Turn off the pump.

Note:
· It is recommended to use the Normal mode for longer cleaning duration.

v. Dock

· When you need to control the device to return to the wall, you can use the Dock task.
The device will move in the specified direction until it detects an obstacle and stops.

vi. Firmware Upgrade

· If there is a firmware upgrade showing on the "Support" page of the APP after connecting to the device.
· Download the firmware package and click "Start Update."
· If the firmware upgrade fails, reconnect the app and upgrade the firmware again.

Exception

a.Notification

· Disconnected: Indicates a disconnection between the App and the device. The device's real-time information cannot be obtained without a successful connection.

· Low Battery: Indicates that the device's battery is critically low and cannot continue operating. Please turn off the device and recharge it promptly.

· Startup Failure: Indicates that the device failed to start working properly after startup. Make sure to place the device in the pool within 1-2 minutes of starting it and keep it stable at the pool bottom.

· Clogged Filter: Indicates that the suction filter is clogged due to excessive debris. Clean the filter promptly before restarting the task.

· Obstacle Trapped: Indicates that the device is trapped in the current environment and requires assistance. Use the App or manual intervention to help the device get out of the predicament.

b.Exception Handling

· Suction Motor Failure:

Check if the nozzle is stuck with any debris. Clean it promptly if necessary.

· Left/Right Motor Failure:

Check if there is any debris clogging the gears of the left/right motor.
Clean it promptly if necessary.

· Battery Failure:

Please contact customer support for assistance.

· System Failure:

Try restarting the system.

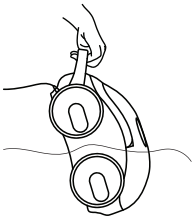
Note:

· If the device encounters startup issues,
try charging it to check if battery level is too low.

· If the issue persists, please contact customer support for further assistance.

Maintenance

a.Device Retrieval



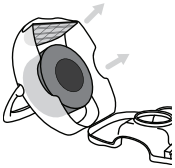
· Lift from the Water Surface:

1. Wait for the device to complete its task and return to the poolside or use the remote control to drive it back to the poolside.
2. Pull the device towards the poolside along the floating cable underneath, and hold it by the handle.
3. Wait for the water inside the filter container to drain out, then lift the device out of the water surface.

· Spool the Floating Cable:

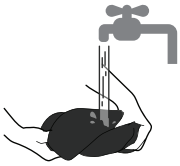
1. Counterclockwise wrap the floating cable around the handle at the rear of the device.
2. Insert the floating cable into the slot.
3. Insert the iBuoy base into the handle.

b.Filter Container Cleaning



· Filter Container Cleaning:

1. Open the lock buckle of the filter container near the trash bin and remove any debris first.
2. Open the handle of the filter container and place it on a flat surface, then counterclockwise remove the filter.
3. Rinse the interior of the filter container with clean water.



· Drainage Filter Cleaning:

1. Take out the drainage filter from the filter container, and rinse with clean water.

· Suction Filter Cleaning:

1. Open the filter frame counterclockwise, and rinse the suction filter with clean water.

Note:
Prolonged use may cause a decrease in suction power,
and if the clogged filter signal light is constantly on, please replace it promptly.

c.Storage Environment:

If the Robotic Cleaner is not in use for an extended period of time, perform the following storage steps:

i. Thoroughly clean and dry the device and filters.

ii. Keep the battery level between 30% and 50%.

iii. Store the Robotic Cleaner in a protected area out of directs

FCC Caution

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.
Caution!
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

IC Warnings

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.
L'emetteur/recepteur exempt de licence contenu dans le present appareil est conforme aux CNR d'Innovation, Sciences et Developpement economique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :
(1) L'appareil ne doit pas produire de brouillage;
(2) L'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.
The device meets the exemption from the routine evaluation limits in section 2.5 of RSS 102 and compliance with RSS-102 RF exposure, users can obtain Canadian information on RF exposure and compliance.
Le dispositif rencontre l'exemption des limites courantes d'evaluation dans la section 2.5 de RSS 102 et la conformite a l'exposition de RSS-102 rf, utilisateurs peut obtenir l'information canadienne sur l'exposition et la conformite de rf.
This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.
Cet emetteur ne doit pas etre Co-place ou ne fonctionnant en meme temps qu'aucune autre antenne ou emetteur. Cet equipement devrait etre installe et actionne avec une distance minimum de 20 centimetres entre le radiateur et votre corps.

Specifications	
Model	ezSpirit 01
Weight	5.6kg
Dimensions	420x380x220mm(LxWxH)
Pool Size	10-100m²/ 107.6-1076.4ft²
Pool Shape	Square/round/irregular-shaped pools
Depth Support	Up to 2m
Slope	<20°
Cleaning Mode	Floor only
Run Time	3-4 hours
Charging Time	3.5 hours
Adapter Input	Input : 100-240V 50/60Hz ; Output : 2.5A 25V
Battery	8000mAh lithium battery

HIGGSINNO