



USER MANUAL  
MODEL ION  
1494SE

 **ION**



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## 1. INTRODUCTION

Dear users:

Thank you for choosing the electric wheelchair of Shanghai Bangbang Robotics Co., LTD. ION 1494SE Instruction Manual is an important document that provides the product information, operation methods and after-sales service information of the electric wheelchair. Before use, please carefully read ION 1494SE Product Manual for correct operation and maintenance. This manual contains information protected by patent rights and copyright. Do not copy the content either partially or completely without the written permission of Bangbang. The contents of this manual are subject to change without prior notice. For the latest information on the equipment, please visit the Bangbang website.

## 2. SAFETY GUIDE

### 2.1. APPLICABLE RANGE OF THIS PRODUCT

Helping disabled, elderly, and frail people who have difficulty walking to move.

### 2.2. PRECAUTIONS FOR ELECTRICAL SAFETY

- This electric wheelchair has passed the test in accordance with ISO 7176-9 Climatic Test.
- This test ensures that the users or escorts of the electric wheelchair have enough time to move the electric wheelchair from the rain to a safe place.
- Do not operate the electric wheelchair in thunderstorms.
- Do not place this electric wheelchair under a rainstorm.
- Do not place this electric wheelchair in a wet place for a long time.
- Do not spray or wash the electric wheelchair with an automatic car wash. If being directly exposed to rain, smog or wet air, the electric wheelchair may have an electrical and mechanical fault or go rusty.

### 2.3. PRODUCT USE CONDITIONS

- Environmental temperature:  $-10^{\circ}\text{C}\sim 50^{\circ}\text{C}$ ; Relative humidity: 20%~95%.
- Atmospheric pressure: 70kpa~110kpa; No strong electromagnetic interference.
- The safety belt is used as a safety accessory; it is used to prevent the user from rushing out of the Electric Wheelchair when it stops in operation to ensure the safety of the user.

### 2.4. DISPOSAL CONSIDERATIONS

In accordance with local laws and regulations, your product shall be processed separating from the domestic waste. The product shall be recycled in the recycling point designated by local government. The classified collection and recycling of this product facilitate conservation of natural resources.

### 2.5. PRECAUTIONS DURING USE

- Driving on slopes: This electric wheelchair has passed the test requirements of climbing on a slope of not exceeding  $9^{\circ}$  with a load of 150kg. Do not try to climb the slopes exceeding  $9^{\circ}$ . During reversing on a slope, please be sure to slow down the electric wheelchair. Do not reverse on a slope exceeding  $9^{\circ}$ . During reversing, please be extremely careful.
- The ability of climbing slope and driving distance are affected by battery and following environment. For example: Weight of the users; Topography (such as grass or gravel); Gradient of hill; Battery life and service life; Extreme temperature; Use and weight of the fittings, etc.

- Braking: when the electric wheelchair brakes, please sit down and hold the handrail firmly. When releasing the upper controller rocker, the electric wheelchair will stop within seconds. Note: Electromagnetic brake will not take effect immediately and will take effect after the wheel rotates.
- Emergency braking: In case of critical situation or unexpected movement, press the power switch key to make the electric wheelchair stop (this emergency brake is effective; however, it shall not be used under normal conditions). Note: Frequent use of emergency brake may make the motor faulty and further prevents the electric wheelchair from being normally used.
- Use of mobile phone: Do not drive the wheelchair with Mobile Application at any time. Please pay attention to road condition when you are driving. The Mobile Application only can be used to help patient move wheelchair and set parameters; NOT used to drive wheelchair.
- The Electric wheelchair may not be fixed as a seat in a moving vehicle.
- The speed of the whole vehicle will vary depending on the tire pressure, ground, environment, and power.

Any one is important about safety, so be sure to follow it.

\* After reading the instruction manual, it should be kept in a safe place for future use.



Warning!

## 2.6. SPECIFIC WARNINGS (PLEASE READ CAREFULLY)

- Do not perform snake driving, high-speed sharp turn, and other dangerous driving operations, otherwise it may lead to the electric wheelchair tilt and human injury.
- Do not use the electric wheelchair on escalators, which may increase the risk of being injured.
- Do not drive on the motor vehicle lane or non-pedestrian.
- Do not drive on the surface of water, oil, ice, or other slippery objects. If not, the electric wheelchair may be out of control.
- Do not try to cross the obstacle or ditch of 40mm. If not, personal injury may be caused.
- Do not sharply bend or move backwards under high-speed driving.
- Do not take passengers on the electric wheelchair.
- Do not operate the electric wheelchair without checking the fasteners, connectors or detachable parts for correct connection and fastening. Please always pay attention to the surrounding environment.
- Do not repair any part, fitting or adapter of the electric wheelchair without authorization.
- Do not get on without braking.
- Do not operate the electric wheelchair when your judgment may be affected (such as drink, take drugs or take medicine).
- Do not operate the electric wheelchair when you are suddenly out of sorts.
- Do not operate the electric wheelchair when your sight is seriously weakened.
- For the injury accident caused by violation of local or international laws or regulations, we undertake no responsibility.
- All the functions can only be operated after you correctly sit on the seat.
- Do not place your feet in any part out of the pedal.
- Do not stand on the electric wheelchair.
- Do not try to go up and down the slope exceeding 9°.

- Do not reverse on the slope exceeding 9°.
- When driving on the slope, release the control system, and the electric wheelchair may step back; When moving forward or backward, the electric wheelchair may roll before the braking function takes effect. Please take care of safety.
- Before use of the electric wheelchair, please check the connection of all electrical parts for safety and reliability.
- Do not disconnect, snip, or modify the wiring harness parts which have been installed on the electric wheelchair under any condition.
- Do not use other unqualified batteries, such as the lead acid batteries which cannot be recycled, the batteries of other manufacturers, etc.
- Before installation, please read the information related to batteries and battery charger.

**In case of violation of the above requirements, there may be unexpected damages.**

### **3. OVERVIEW**

This user manual is applicable to power wheelchairs, and includes various types of safety precautions, function descriptions and maintenance information.

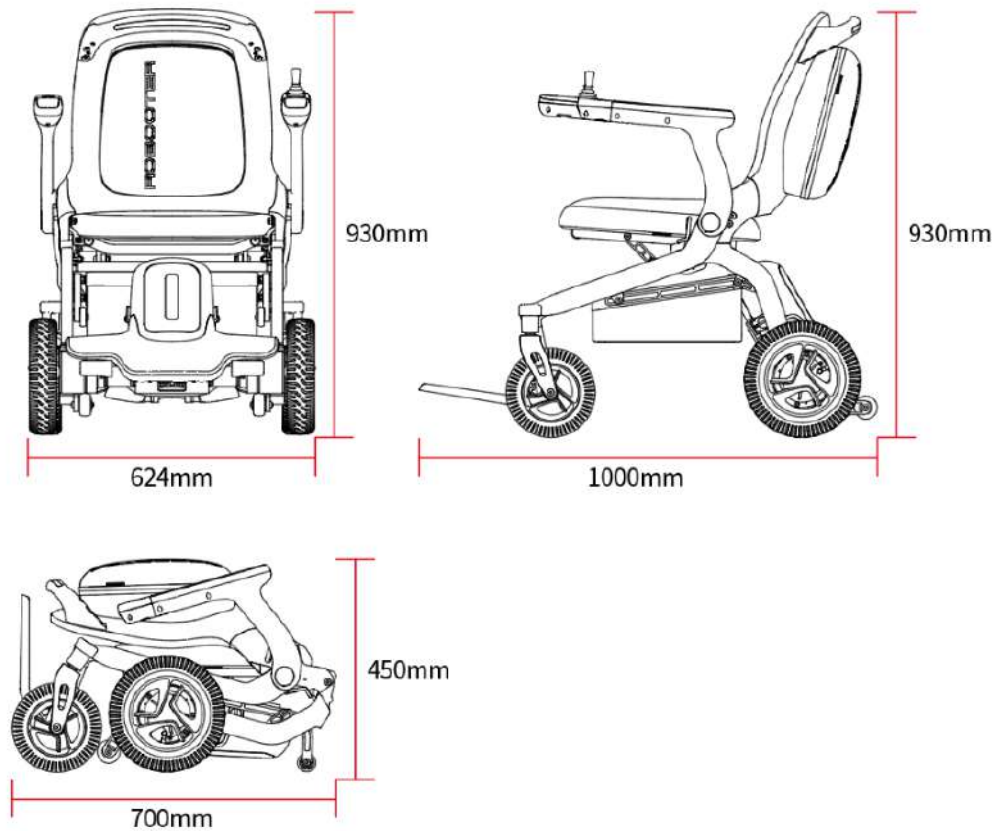
**The graphics in this manual are for the user's reference only. Refer to the actual use of the product.**

### **4. APPLICATION SCOPE**

Helping disabled, elderly and frail people who have difficulty walking to move.

## 5. PRODUCT BRIEF INTRODUCTION

### 5.1. WHEELCHAIR STRUCTURE



Name	Parameter
Product model	BBR- E40-01
The type of class of the wheelchair: Class A, Class B or Class C	Class A
Folding mode	Manual folding
Maximum speed	6km/h
Maximum barrier height	40mm
Maximum crossing ditch width	10cm
Minimum turning radius	450mm
Total weight	27kg
Battery number	1
Battery weight	3.4kg
Specifications of front and rear wheels	8-inch front wheel, 10-inch rear wheel
Maximum load	150kg
Battery capacity	20Ah
Overall dimension (length * width * height)	1000*624*930mm
Folding shape dimension (length * width * height)	700*624*450mm
Seat wide	46cm
Theoretical driving distance	23km
Bearing capacity of the storage basket	≤5kg
The minimum width of corridor in which the wheelchair can be turned to face the opposite direction	1800mm
The rated slope, expressed in degrees	9°
The type(s) of tyres that can be used on the wheelchair	Pneumatic rubber tires; PU tires
If the wheelchair can be dismantled or has any removable parts, the mass of the heaviest part	23.5kg
Overall length with legrest	1000mm
Static stability downhill	9°
Static stability uphill	9°
Static stability sideways	9°
Dynamic stability uphill	9°
Minimum braking distance from max speed	1100mm
Footrest to seat distance	400mm
Leg to seat surface angle	100°
Armrest to seat distance	230mm
Front location of armrest structure	500mm

\* The graphics in this manual are for user reference only. Refer to actual product usage.



Attention!

- If it is not used for a long time, must be fully charged every month.
- The charging place should be well-ventilated. Do not expose it to sunlight or a humid environment when charging. The one-time charging time should not exceed 24 hours.
- Do not use the wheelchair in manual mode when going up and down slopes.
- When going up and down slopes, keep all four wheels on the ground, and never drive in the air (single/multiple wheels).
- It is recommended to practice at the lowest speed for the first-time use.

## 6. CHARACTERISTICS OF THE WHEELCHAIR

The DC brushless deceleration motor which is energy saving and efficient is the core part to drive the electric wheelchair. The motor is featured for its large torque, high efficiency, and power saving.

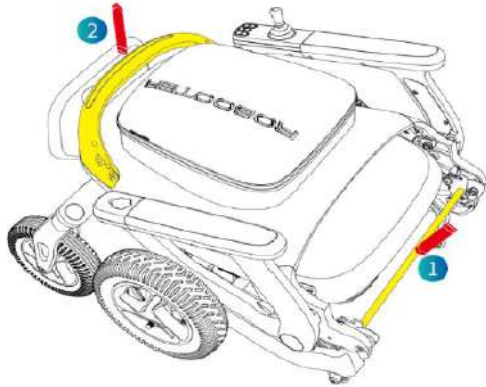
- The special upper controller is used to achieve the intelligent control of the motor. Through the independent rocker operation, it can achieve forwarding, differential turn, low speed reversing and other actions, making it easy to control the electric wheelchair.
- Fast and efficient folding and unfolding action can be realized; It has the characteristics of safety and reliability, simple operation.
- The foldable frame structure has the advantages of portability, being compact, easy to carry (car trunk and air transportation) and no space occupation.
- Power saving mode: Automatic shutdown if case of no 30min operation. The app terminal can select the automatic shutdown time: 30min, no shutdown.
- Cruise control mode: Press "speed  $\wedge$ " button for 3 seconds and enter the cruise control mode. The front rocker starts the cruise control.
- Novice mode: Click Fn to enter the novice mode. The voice prompts "Enter the novice mode" and the screen displays the novice mode icon. The first and second gears are optional. Speed gear limit 2.



## 7. UNPACKING AND UNFOLDING

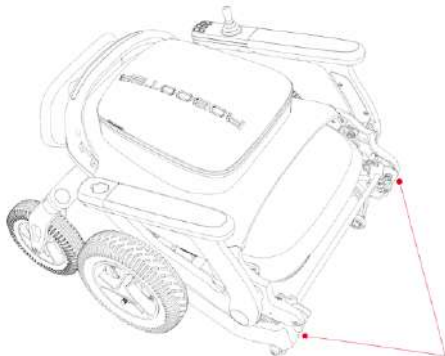
### Expanding operation mode

When manually expanding the electric wheelchair, please press the folding switch with one hand and pull the armrest up with the other hand until the electric wheelchair is fully expanded.



### Remarks

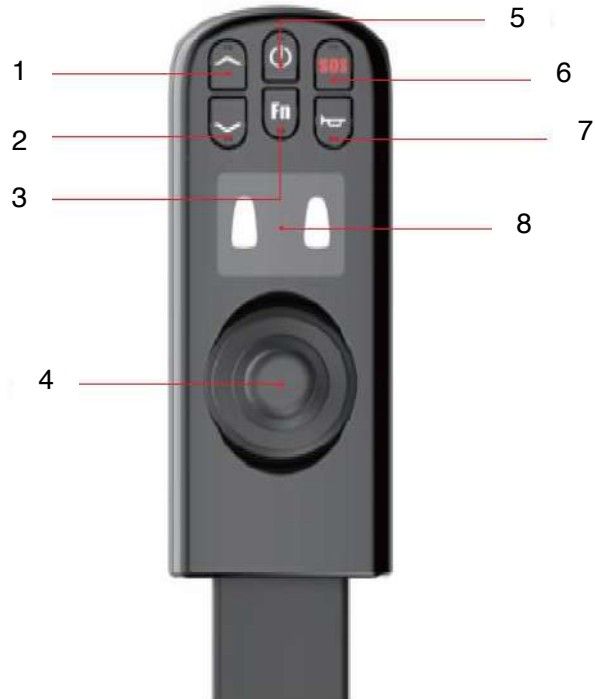
Before folding the electric wheelchair, empty the items in the storage basket to prevent damage.  
Note: During the folding/expanding steps, do not contact the position indicated in the anti-clamp manual.



## 8. UPPER CONTROLLER INTRODUCTION

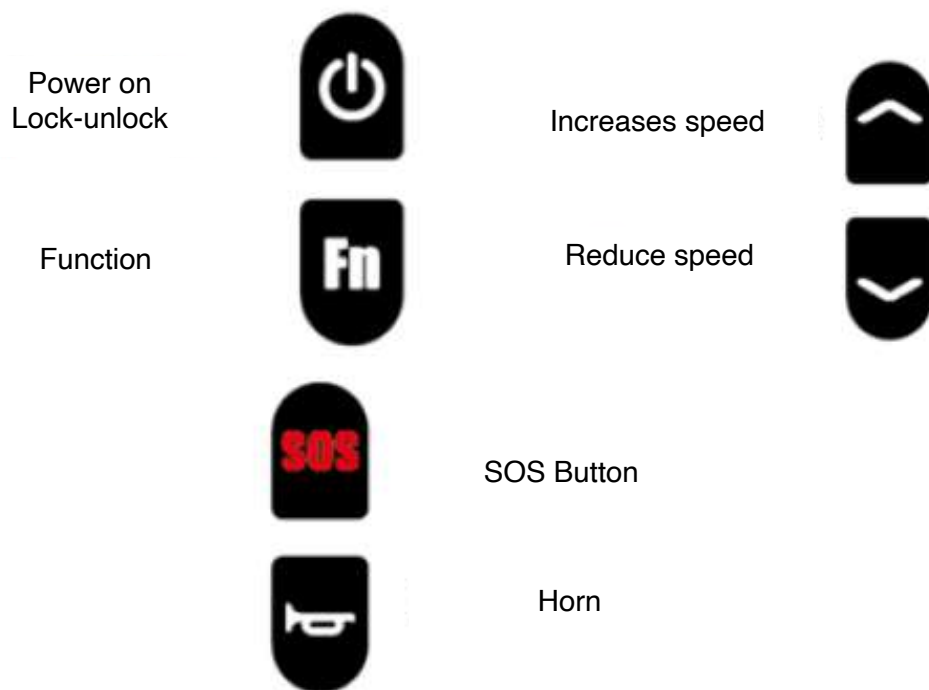
### 8.1. UPPER CONTROLLER STRUCTURE

1. Speed +
2. Speed -
3. Function button
4. Joystick
5. Power on / lock
6. SOS button
7. Horn
8. Display



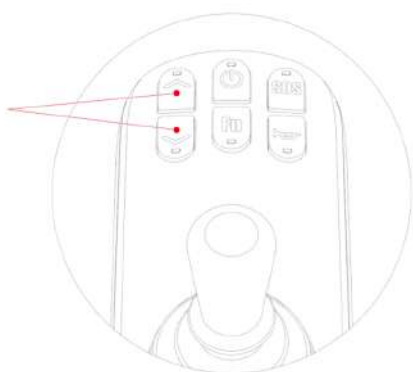
### 8.2. UPPER CONTROLLER OPERATION

- **Rocker**: pushing the upper controller rocker can control the speed and direction of the electric wheelchair.
- **Power switch key**: long press for 3 seconds to turn on the power supply and long press for 3 seconds to turn off the power supply.
  - Press the power switch key to turn on the vehicle locking function.
  - Press the power switch key to unlock the entire vehicle, and the status is unlocked.
- **Gear  $\wedge$  button**: press " $\wedge$ " to add a gear (Up to 5 gears)
- **Gear  $\vee$  button**: press " $\vee$ " to reduce one gear (minimum 1 gear).
- **Horn key**: press the horn button once, and the horn will sound once.
- **SOS key**: press and hold for 3 seconds to sound the SOS alarm of the electric wheelchair.
- **Fn key**: Click Fn to enter the novice mode, and the screen will display gear 1, gear 2 and the NOVICE icon, accompanied by the voice prompt of "Enter the novice mode". Speed gear limit 2 (the first and second gears are optional).



### 8.3. SWITCH TO PUSHING MODE

Press '^' key and 'v' key at the same time to enter pushing mode. Shake the rocker can exit the pushing mode.



## 8.4. DISPLAY SCREEN MENU DESCRIPTION



- **Battery percentage display**
  - The upper controller screen of electric wheelchair displays the battery in %.
- **Speed display**
  - The upper controller screen displays the electric wheelchair driving speed (unit: km/h).
  - The precision of the displayed speed is  $\pm 5\%$ .
- **Bluetooth status display**
  - Without Bluetooth connection, the Bluetooth indicator sign is not displayed on the screen.
  - With Bluetooth connection, the Bluetooth indicator sign is displayed on the screen.
- **Battery power display**
  - The upper controller displays the power state in real time.
- **Cruise control display**
  - Press and hold the "Speed  $\wedge$ " button for more than 3s to enter the cruise control mode. The electric wheelchair upper controller screen displays the cruise control icon, and the voice prompts two times. Push the rocker forward to start the cruise control.
  - Press the key or move the rocker backward to exit the cruise control (regardless of driving state).
  - The cruise control function can only be triggered when non-locked and cannot be triggered in locked mode.
  - " $\wedge$ " and " $\vee$ " can be used to adjust the gears during the cruise control process.
  - Dial the rocker to control the bending during the cruise control process.
  - After entering the cruise control mode, if the cruise control mode is not started within 5s, the cruise control mode will be automatically exited, and the voice prompt "With wait timeout, the cruise control mode has been automatically exited" will be given.
- **Gear display**
  - Press " $\wedge$ " to add a gear (Up to 5 gears)
  - Press " $\vee$ " to reduce one gear (minimum 1 gear).
  - The above functions can also be realized on the APP (the App can be adjusted in different gears).
  - The electric wheelchair upper controller screen displays the speed gear.
- **Novice mode display**
  - Click Fn to enter the novice mode, and the screen will display gear 1, gear 2 and the NOVICE icon, accompanied by the voice prompt of "Enter the novice mode". Speed gear limit 2 (the first and second gears are optional).



新手模式显示

- **Fault code display**

- For the diagnostic code displayed by the built-in information diagnostic of the product, refer to 5.2 troubleshooting for the content.

故障代码显示



- **SOS display**

- Long press SOS button for 3 seconds to start SOS call. The screen displays SOS icon and flashes.

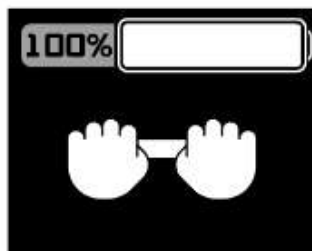
SOS显示



- **Pushing mode display**

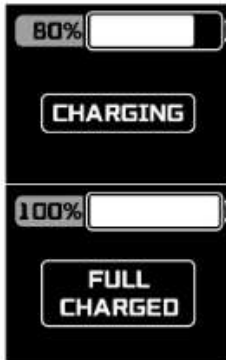
- At the same time, press and hold the button "Speed ^" and "Speed v" for 3s, and the pushing mode icon will be displayed on the upper controller screen of electric wheelchair.

推行模式显示



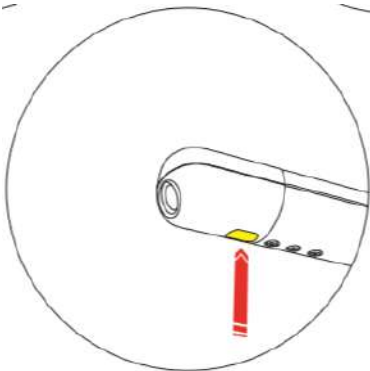
- **Battery charging status display**

- After the charging port of the electric wheelchair is connected to the charger, the upper controller screen will display CHARGING icon, meaning that the electric wheelchair is being charged.
- After the electric wheelchair is fully charged, the upper controller screen will display FULL CHARGED icon, meaning that the electric wheelchair has been charged.



## 8.5. USE OF ARMREST TOUCH LIGHT

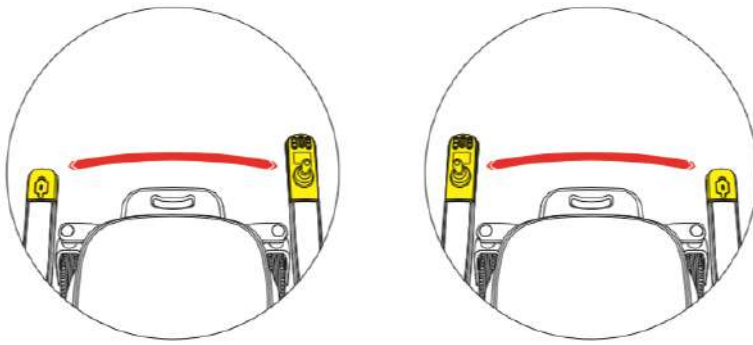
Touch the touch switch of the lower armrest lamp on the left upper control to control the light on and off the armrest touch lamp.



## 8.6. LEFT AND RIGHT HANDRAILS

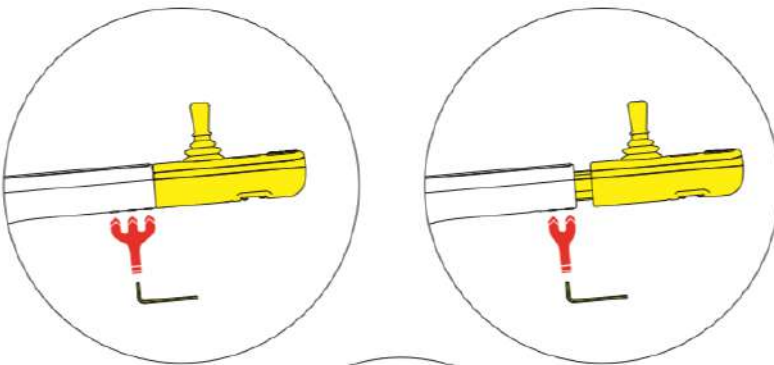
### 8.6.1. INTERCHANGEABLE OPERATION MODE OF LEFT AND RIGHT ARMREST CONTROLLERS

- Step 1, please turn off the machine power before exchanging the left and right armrest controllers.
- Step 2, use a hex wrench to remove the three Allen screws under the armrest controller and open the connecting harness of the left and right controllers.
- Step 3, interchange the left and right controllers, connect the harness, insert the left and right controllers into the armrest controller card slot, and use the hexagon wrench to lock the hexagon socket screws.



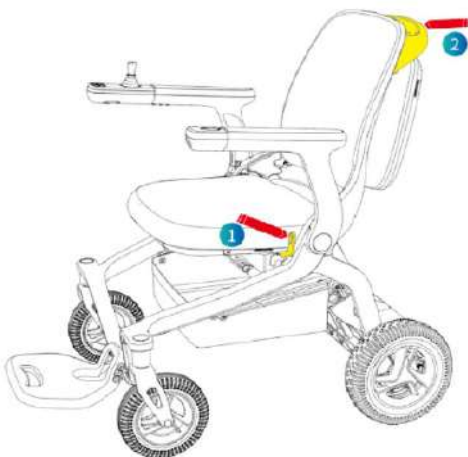
### 8.6.2. GEAR ADJUSTMENT OPERATION MODE OF LEFT AND RIGHT ARMREST CONTROLLER

- Step 1, please turn off the machine power before adjusting the gear of the left and right armrest controllers.
- Step 2, use a hex wrench to remove the three Allen screws under the armrest controller, and the controller moves outward by one gear.
- Step 3, use the hexagon wrench to lock the hexagon socket screw.



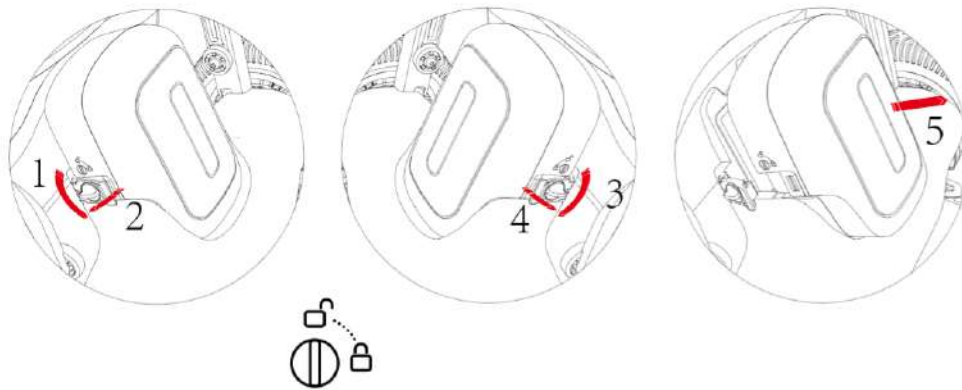
## 9. WHEELCHAIR FOLDING STEPS

Modo de operación de plegado: Al plegar manualmente la silla de ruedas eléctrica, presione el interruptor de plegado con una mano y tire del reposabrazos hacia arriba con la otra mano hasta que la silla de ruedas eléctrica está completamente doblada.



## 10. BATTERY DISASSEMBLY

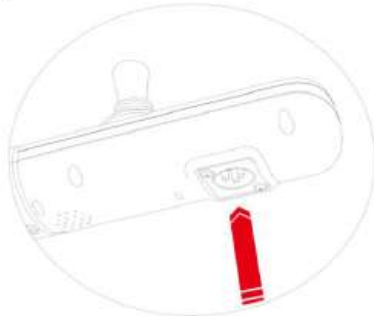
- In Step 1, manually rotate the left knob of the battery case and rotate the left knob to the unlocking position. Then open the battery left buckle.
- In Step 2, manually rotate the right knob of the battery case and rotate the right knob to the unlocking position. Then open the battery right buckle.
- In Step 3, remove the battery in the direction shown in the figure.



## 11. CHARGING

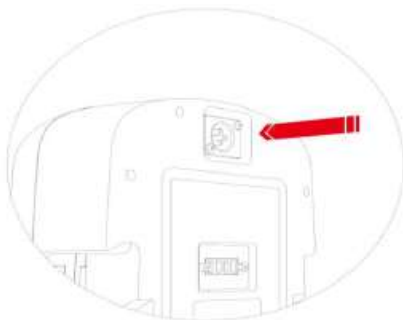
### Charging method I

Connect the charger and plug the charger plug into the upper controller for charging.



### Charging method II

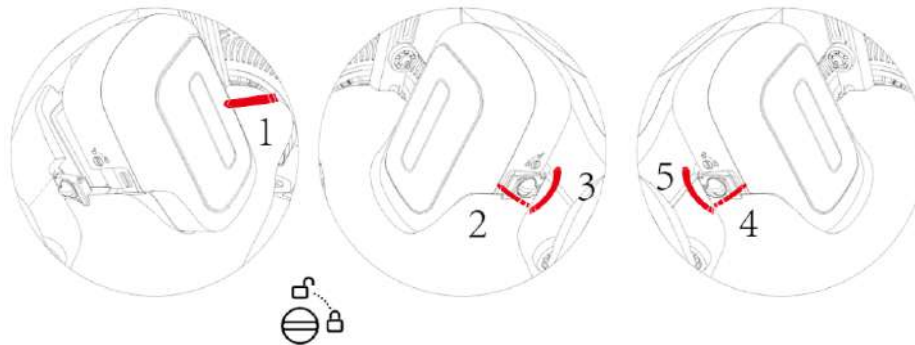
Take out the battery, plug the charger plug into the charging port of the battery to charge.





## 12. BATTERY INSTALLATION

- In Step 1, place the battery in the cell slot in the direction shown.
- In Step 2, manually close the battery right buckle and rotate the right knob of the battery box with the right knob to the locked position.
- In Step 3, manually close the battery left buckle and rotate the left knob of the battery box with the left knob to the locked position.



## 13. PRECAUTIONS FOR OPERATION

- Please carefully read the Product Manual before use and check whether the parts are in good condition to ensure your safety.
- When the electric wheelchair is operated for the first time, level and hard ground shall be selected as soon as possible to ensure that your sounding area has no barrier or pedestrian.
- Do not remove the motor and the upper controller by yourself. If replacement is required, please purchase the original parts from the authorized agent.
- If the electric wheelchair is artificially modified, the use of non-original parts will be exempted from the warranty liability.
- Do not give the electric wheelchair to minors or other people who are not suitable for the electric wheelchair.
- Do not overload driving (the maximum load of the electric wheelchair is 150Kg); It is limited for 1 person.
- Make sure that the electric wheelchair is already fully expanded.
- Make sure that you have fastened the electric wheelchair seat belt.
- When you sit correctly in the electric wheelchair and gently push the upper controller rocker, the electric wheelchair will move forward, back, turn left or turn right; The electric wheelchair will be stopped after the release. Practice this basic function until you are skilled.
- During steering, please clear the barriers nearby.
- Please obey the traffic rules and drive in the non-motorized lane to ensure the safety of you and others. Please drive slowly and Do not take others.
- When the electric wheelchair is operated in a relatively harsh environment (e.g., when entering or turning), the electric wheelchair should be operated slowly. It is recommended to minimize to the lowest speed of the electric wheelchair in harsh environments.
- Check whether the electric wheelchair is in good condition, such as whether the performance is normal.
- The electric wheelchair will automatically shut down if being idled for 30 minutes.
- When using an electric wheelchair, avoid being close to a radio transmitter, high-power handheld radio transmitter or receiver.

- Any error or improvement in the Product Manual will be specified in the new specification. We may launch new products to meet the market needs at any time. If there is any difference between the relevant functional description and performance and this manual, the specific products and relevant supplementary instructions shall prevail, and it will not be stated in this manual.

## **14. MAINTENANCE**

Daily spot inspection and maintenance

- The electric wheelchair user or operator is responsible for the cleaning, inspection, and maintenance.
- General maintenance of the electric wheelchair includes clean electric wheelchairs, check tires, check batteries.
- Our suggestion: The electric wheelchair shall be checked every 6 months.
- When the electric wheelchair needs to be cleaned, the upper controller should be wiped with the clean towel.
- Regularly (weekly or monthly, depending on the frequency) check the connecting parts (such as screws and nuts) for loosening, falling and corrosion, etc.
- Regularly check whether the folding parts are stuck, falling off and other conditions.
- Regularly check the tires for aging and serious wear, etc.
- In case of rain or wet weather, the electric wheelchair shall be wiped dry as much as possible to prevent rust due to dampness.
- Electric wheelchairs should try to avoid exposure to the sun in hot weather.

### **14.1. PRODUCT CLEANING METHOD**

Cleaning method of electric wheelchair: Wipe with the clean towel inside of the product.

## **15. STORAGE**

- The packaging storage temperature is -20°C- 60°C.
- The relative humidity is no more than 95%.
- The atmospheric pressure shall be 70 ~ 110kPa.
- The electric wheelchair shall be stored in the ventilated room without the harmful gas which may cause corrosion, and it is not allowed to press and pile up.
- Under packed status, the maximum piling height is 5 layers.
- Do not make the product stored in the places which get close to high temperature source or direct sunlight for a long term.
- If the product will not be used for a long term, please store the electric wheelchair is fully charged and power off.
- If the product is stored exceeding one month, please fully charge, and then continue storing and using.

## **16. QUALITY ASSURANCE**

- The service life of this product is 5 years after the product is delivered. Please use within the effective date. In case of expiration, do not use the product to avoid occurrence of accident.
- Refer to product tag for date of production.

## 17. APP OPERATION GUIDE OF THE ELECTRIC WHEELCHAIR

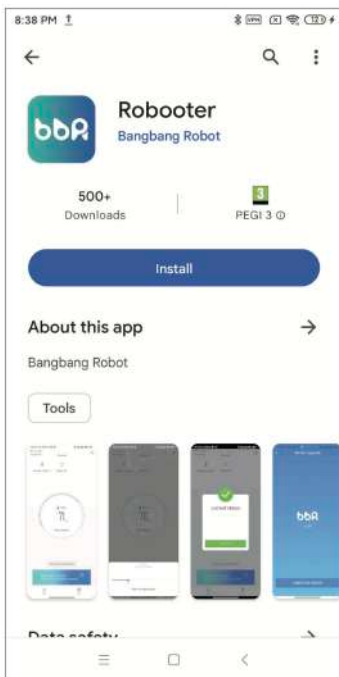
### 17.1. DOWNLOAD APP


Scan the QR code to download Mobile Application.

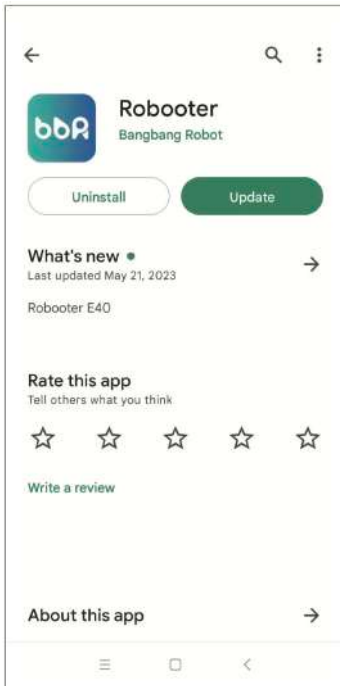



### 17.2. INSTALL APP

#### Android

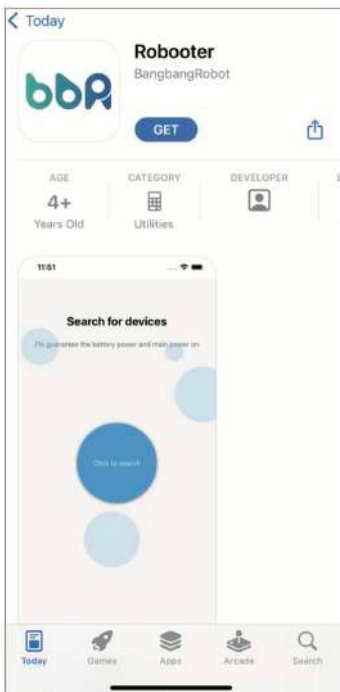



- The above screen is displayed after scanning, click  to install the mobile application.

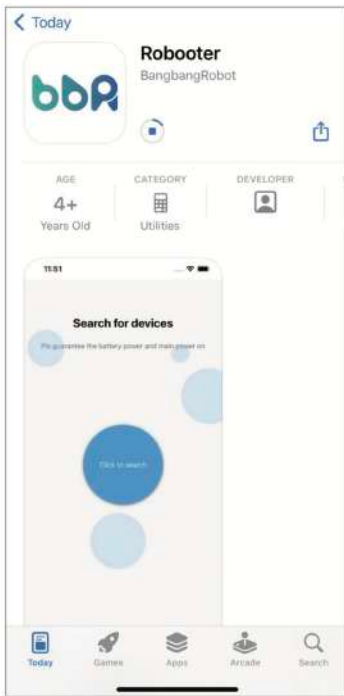


- The above screen indicates that the installation of the mobile application is complete.
- Click  on the above screen to open the mobile application.

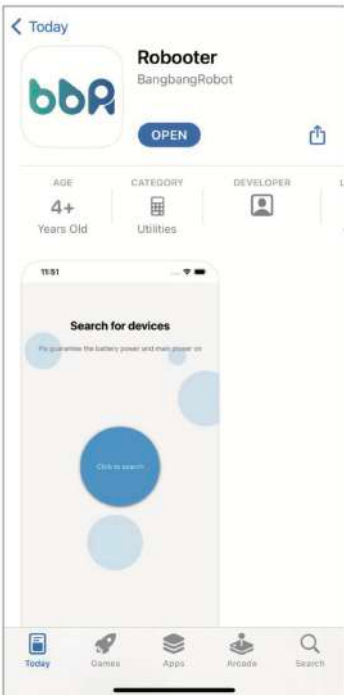
## IOS



- The above screen is displayed after scanning, click  to install the mobile application.

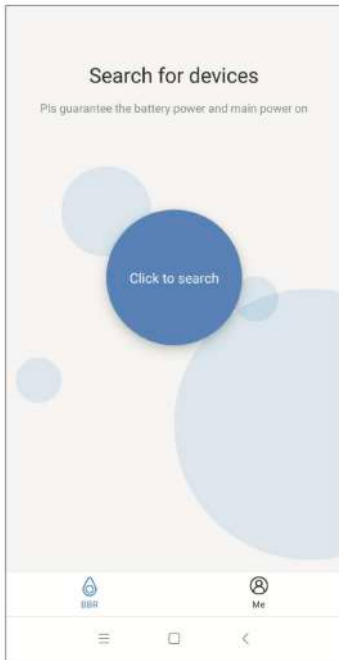


- The above screen indicates that the mobile application is being installed.

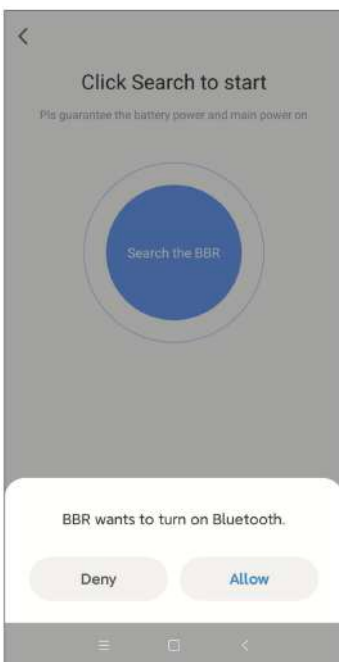


- The above screen indicates that the installation of the mobile application is complete.
- Click **OPEN** on the above screen to open the mobile application

### 17.3. CONNECT DEVICE



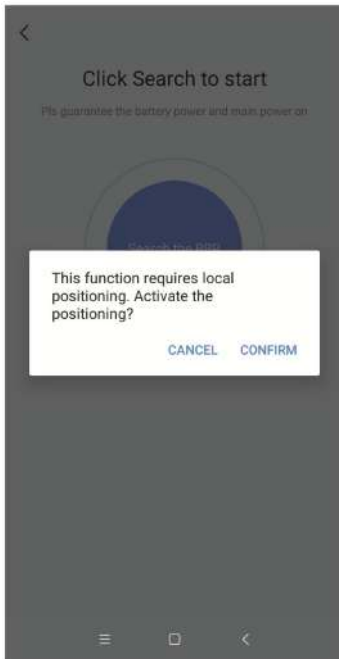
- Click **Click to search** on the above screen to search device.



Note: Obtain phone permissions

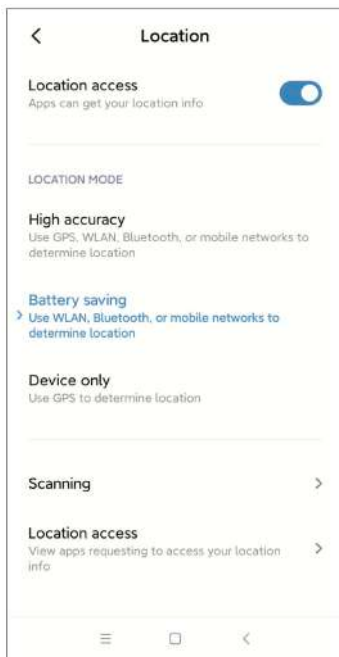
- Click **Allow** on the above screen to turn on your mobile's Bluetooth.

## 17.4. INSTALL APP



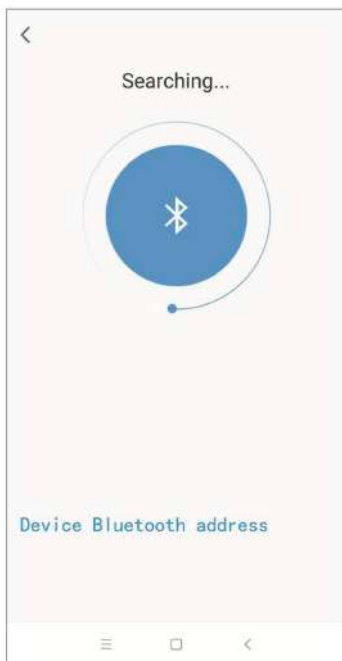
Note: Obtain phone permissions


- Click **CONFIRM** on the above screen to turn on your phone's location.

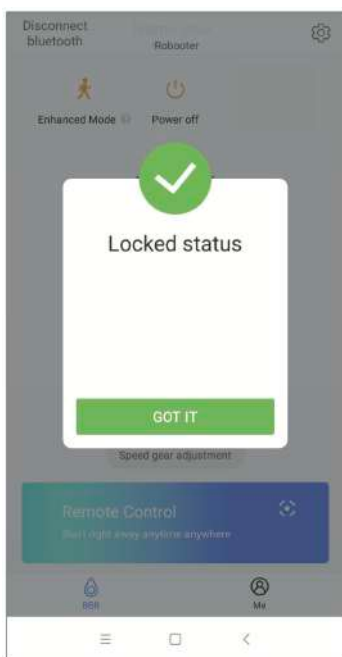


Note: Obtain phone permissions

- Click "Location access" on the above screen to turn on your phone's location.



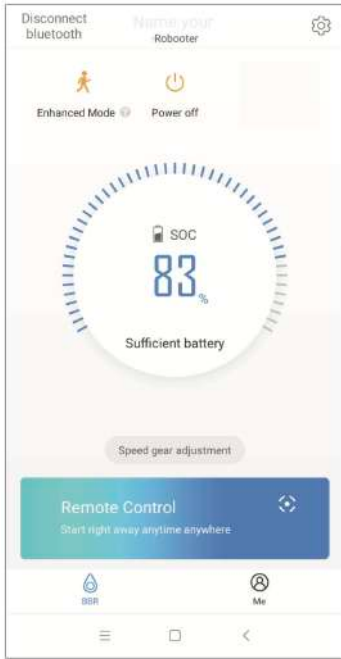
- Once the above operation has been done mobile application start searching for the device.
- Click `DF:85:EC:73:15:05`  to pair the mobile application and device.






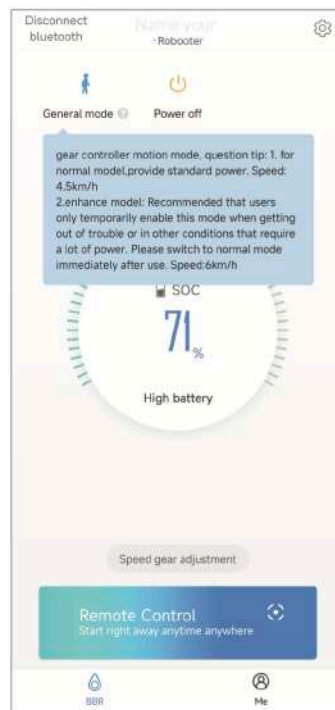
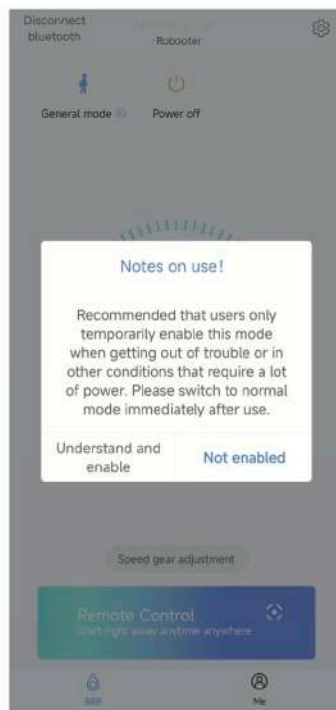
Note: When the wheelchair is in lock mode, display this interface. After turning on the wheelchair, enter the lock mode automatically. Only use the app after unlocking on the wheelchair.


- The above screen indicates a successful connection.
- Click **GOT IT** in the above screen to access status screen of the electric wheelchair.





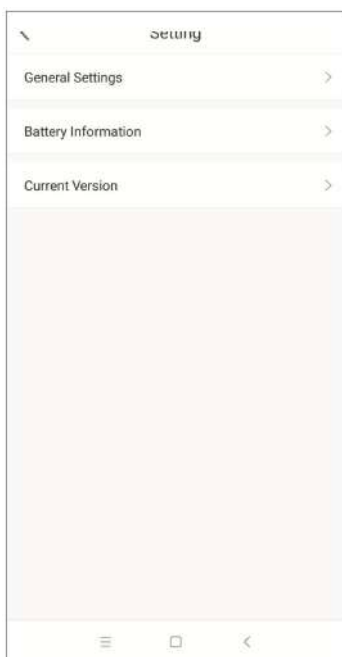
- Click  Power off
- Click  to disconnect the bluetooth connection.
- Click  to adjust the device speed. (Adjustable speed in 5 gears)




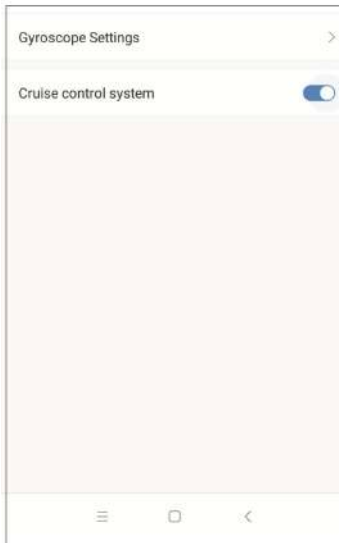
- Click  General mode in status screen to access enhanced mode adjustment and general mode adjustment. (General mode speed: 4.5km/h, enhanced mode speed: 6km/h)



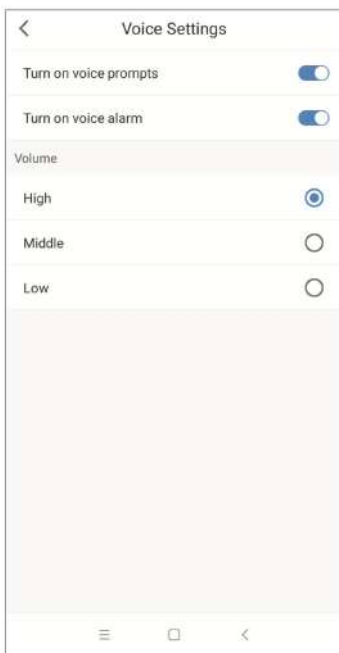
- Click **Remote Control** in the status screen to access the remote control mode
- Circle up to move forward, down to move back, left to turn left, right to turn right.



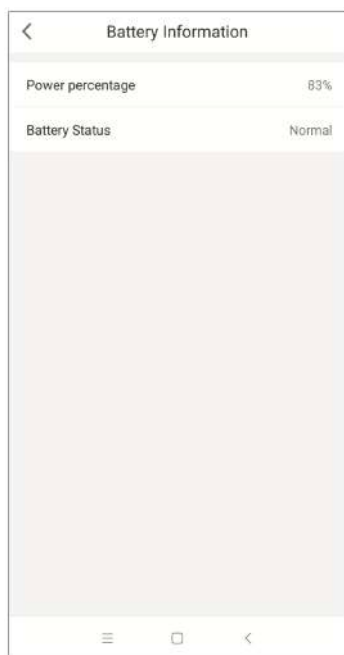
- Click  in the top right corner to access the setting screen



- Click “General Settings” in the setting screen to access the general settings mode.
- Cruise control system: slide left to turn off cruise control, slide right to turn on cruise control.




- Click “Voice settings” in the General settings to access the voice settings mode.
- Turn on voice prompts: slide left to turn off voice, slide right to turn on voice.
- Turn on voice alarm: slide left to turn off voice, slide right to turn on voice.
- Adjustable 3-step volume: High, Middle, Low.



- Click “Battery information” in the setting screen to access battery information screen.
- Shows battery power percentage and battery status.



- Click “Current Version” in the setting screen to access version upgrade mode.
- Show current device version.
- Click  to upgrade version of device.

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Polígon Industrial Sant Antoni. Nau 5  
08620 Sant Vicenç dels Horts, Barcelona

[www.teyder.com](http://www.teyder.com)

[teyder@teyder.com](mailto:teyder@teyder.com)

For technical problems, please contact [sat@teyder.com](mailto:sat@teyder.com)

The supplier may change the dimensions without prior notice.

Manufacturer:

**Shanghai Bangbang Robotics Co., LTD**

Room 501-1, Building A, Software park

Shuyang Country, Suqian, Jiangsu

China

Representative CE:

**RIOMAVIX S. L.**

C/ de Almansa, 55, 1D

28039 Madrid

España





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