

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna transmitter.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

## User Manual

The Double Wheels Intelligent  
Balancing Vehicle

# About the Manual

Thank you for choosing the double wheels intelligent balancing vehicle. The manual is suitable for the urban series and cross-country series, please read the manual carefully to ensure that:

- ◎ Quickly master the basic operation steps and riding methods of intelligent balancing vehicle.
- ◎ Get familiar with the safe riding rules so as to gain a safe and pleasant riding experience.
- ◎ Understand the structures, operation modes, regular maintenance methods of intelligent balancing vehicle.

**If you have any questions or would like to get more information, please contact the authorized dealers or after-sales service personnel.**

**Please pay special attention to the following logos and their contents:**



## Dangers!

May cause serious property damage or personal injury



## Warnings!

Improper operations can lead to work anomalies or faults



## Tips

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## Chapter One

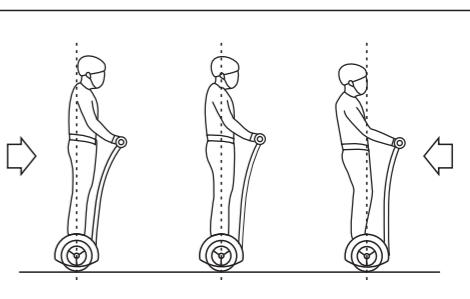
### To know the double wheels intelligent balancing vehicle

#### 1.1 Double wheels intelligent balancing vehicle of urban and cross-country series

The intelligent balancing vehicle is an intelligent auxiliary tool with automatic balance system, which has riding and entertainment functions. The rider can stand on the vehicle to operate it by moving his/her body, or control it by mobile devices like smart phone to realize unmanned. The double wheels intelligent balancing vehicles have the following features:

◎ Wear-resisting vacuum tyres and ergonomic joystick, you can ride comfortably.

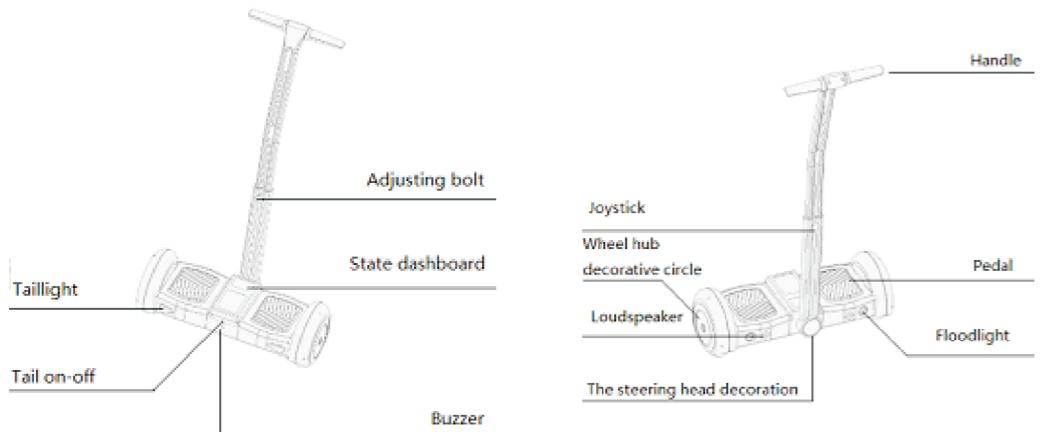
◎ Tyres were installed on left and right symmetrically and have zero turning radius, you can move flexibly.



#### 1.2 Operating principle

The operation of double wheels intelligent balancing vehicle is mainly based on a fundamental as "dynamic stability", which uses the inbuilt gyroscopes and accelerometers to detect the change of the car body posture, and use the servo control system to drive motor to adjust accurately, in order to keep vehicle's balance. If not balanced, the CPU will control the motor around on both sides to rotate quickly, in order to keep vehicle's balance all the time. On account of the vehicle can keep balance automatically, when you are standing on the vehicle, the tyres will roll forward automatically as your body leans forward. The opposite can be backward. Turning the handle can make the vehicle turn left or right.

### 1.3 Product schematic diagram



### 1.4 Product parameter table

Speed mode	Power mode : 5km/h	Riding mode : 15km/h
Battery power	180 Wh / 360 Wh	
Riding mileage	13km/26km	
Max gradient	20°	
Charge time	2~4hours	
Working temperature	-10°C~50°C	
Body weight	20kg	
Max load	120kg	
Driving power	1000W	
Motor size	8''Brushless DC motor	
Body size	620×260×(800-1100)mm	

## 1.5 Serial number/Warranty manual

After the completion of the production, each double wheels intelligent balancing vehicle had been equipped with a serial number and a record for future reference in the form of barcode, you can find them on the following places:

- In the warranty manual
- On the warning label which is on the vehicle body surface
- On the outside surface of the packing box

The warranty manual will indicate contact information of maintenance services, the detailed warranty terms, the effective date



Each vehicle has a unique serial number, the serial number and the warranty manual are the evidences for free warranty and after-sales service. Please check whether the serial number of the above three places are consistent. If the serial number has missing or be inconsistent, please contact the seller.

## 1.6 State

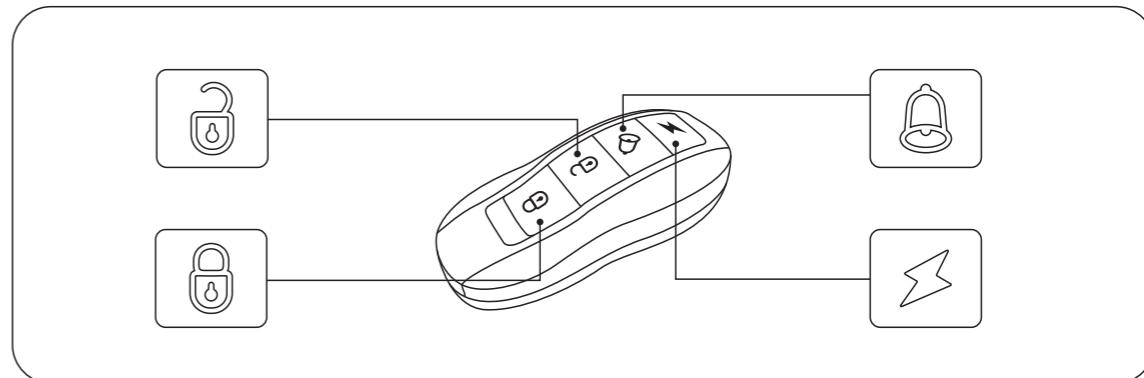
**Shutdown:** Under this state, all electric control systems are in dormant state, you need to press the start switch to go to the starting-up state.

**Starting-up:** Under this state, the vehicle is in preparatory condition, tap lightly on the pedal will go into the self balancing riding condition.

**Standby:** Under this state, it is necessary to start the vehicle by the remote key.

## 1.7 Remote key and state dashboard

The shape of remote key and functions of each button as shown below:



① **Standby button:** When the vehicle was in starting-up state, press this button will enter standby state. Press this button again, will go into the starting-up state..

② **Auxiliary key:** Functions the same as Mode button, Calibrated balance.

③ **Warnings button:** Press this button, the vehicle will be issued "di di".

④ **Mode button:** Press this button, the power mode will be on or off.

When all the power display lights are bright, the power is 100%. When blue lights extinguish and only green light and red light are bright, it means that 70% of the power is remaining. When green light extinguish and only red light is bright, it means that 40% of the power is remaining, from now on to ride by a period of time, the vehicle will sound alarm, said power less than 10%, please recharge in time.

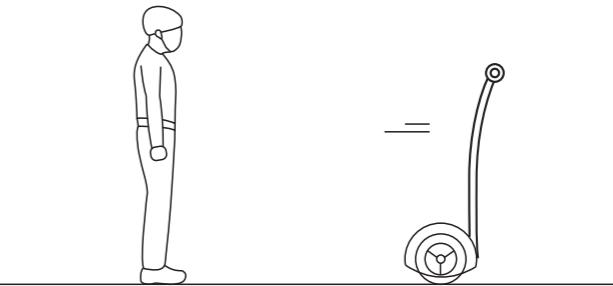
## 1.8 Working mode

### 1.8.1 Power mode

Under this mode, the central light in the first row on the dashboard is green. The vehicle will be in the state of self balancing. This mode is suitable for beginners. Under this mode, the vehicle can move forward by itself. For your safety, please hold the handle. When crossing roadside railing, steps, unsafe or unsuitable situations for riding, you can use this mode to draw the vehicle. This mode has a maximum speed of 5 km/h.



In this mode, it is forbidden to loosen hands to let the vehicle go forward by itself. Otherwise it will make the vehicle body fall down or hit other objects. Please hold the handle.



### 1.8.2 Riding mode

Under this mode, the central light in the first row on the dashboard is red. The vehicle will stay in unbalance state. You should hold the joystick by your hands. Tap lightly on pedal will go to self balancing riding condition. This mode has a maximum

## Chapter Two

### Assemble the intelligent balancing vehicle

#### 2.1 Check the items in the packing box

Please open the packing box and remove the items carefully in turn.



The body part is heavy, please carefully take out upwards. Ask others for help when necessary. Use the handle as far as possible, don't lift fender directly, otherwise it may jam your fingers.

Please check out the items as following list :

Vehicle body composition	One suit	User manual/ Quick start guide	One suit
Handle	One pair	Warranty manual/ Certification	One suit
Joystick	One pair	Remote key	Two pair
Battery pack	Has been loaded	Safety gear	Optional
Screws and assembly tools	One suit	Storage bag/ Side locker	Optional

#### 2.2 Assemble new vehicle

Make sure that all the parts are complete in good condition, you can assemble your vehicle according to the following steps.



Before removing, installing any spare parts, and cleaning or maintaining the vehicle, be sure to shut down and unplug the power supply charge cable.

##### 2.2.1 Preparation

Before assembling a new vehicle, find the accessory tools from the packing box. Please keep this set of tools, they will be used in the maintenance in the future. At the same time, it is recommended for you to wear gloves to avoid dirty and being scratched.

##### 2.2.2 Install the joystick

① Insert the handle to the joystick: insert the handle, then take out the inner hexagon countersunk screws, using the corresponding inner hexagon wrench to tighten the screws.

② Insert the joystick to the vehicle body: tightly compress the joystick, tighten the knob clockwise.



Techniques of screw installation and disassembly:

- ① You must make the inner hexagon wrench to the bottom of the screw.
- ② Twist screw by cross.
- ③ Don't be a completely tight once.
- ④ When feel the screw was tight, you may continue to twist 1/3 ~ 1/2 circle.



When assemble or disassemble the joystick, you need to unscrew the knob first, then keep the joystick vertically insert to the handle and tighten. Before using, please make sure the joystick has been installed properly. If too tight, it will be motionless, if too loose, it will be dangerous.

## Chapter Three

### Common operation/function

#### 3.1 Adjust the height of joystick

The standard height of the joystick is suitable for riders of 1.5 ~ 1.9m height. Please adjust the height of the joystick according to riders' height.

#### 3.2 Recharge the battery

First insert the charger mouth to vehicle's charge mouth, and then insert the plug of the charger to the power socket (100 ~ 240 v mains), then it can be charged. When the display light on the charger is red, it is charging. When the display light changed



Charge the battery before it run out completely. When the state dashboard show that the power is low, please charge as soon as possible.

### 3.3 Replace the tyre

It is not safe to continue using excessively weared tyres (the tyre tread depth is less than 1 mm or even parts of pattern have been smooth). So when excessively weared, the tyres should be replaced in time.

### 3.4 Spot lamp

The double wheels intelligent balancing vehicle was equipped with LED headlights and warning taillights, they will flicker or display according to different operations to play important roles, like reversing warnings, turning prompt, lighting at night and



The taillights can be opened/closed by taillight open key on the remote key.  
The floodlights can be opened/closed by band switches.

### 3.5 USB port

Each intelligent balancing vehicle has a USB port at the tail. To toggle the band switches to left or right can output 5V/1A current. At this point you can charge for mobile phone or other devices.



The USB port is only useful in the case of opened band switches, and only the power supply, no data transmission . Please don't insert devices whose current demand is higher than 1A.

### 3.6 Bluetooth music playing function and APP function

The double wheels intelligent balancing vehicle was equipped with Bluetooth music playing function and mobile phone App function.

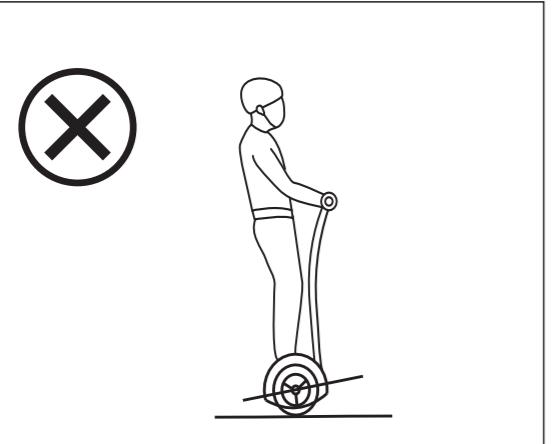
You can use your smart mobile devices to connect with the Bluetooth speakers of intelligent balancing vehicle, the method is: toggle the band switches at the tail to open the Bluetooth, and then open the Bluetooth in mobile devices, after successfully matched, you can enjoy music by the Bluetooth speakers of the vehicle.

You can also download and install APP of the intelligent balancing vehicle, to know the riding state every now and then, such as

### 3.7 Recalibrate the intelligent balancing vehicle

When riding in situ, the vehicle body lean forward or back, then the vehicle's balanced benchmark may have been changed, it is necessary to be recalibrated. Method as follows:

After started up, keep the body in a horizontal state, press the taillight open key first, and then press the mode button. When you hear "di di" prompt sound, the vehicle will proceed with balance state. When the vehicle issue "di di" prompt sound again, it said that the recalibration is successful. Then release the mode button first, next to release the taillight open key. The recalibration is finished.



## Chapter Four

### Guides for Safe Riding

From development to production, each double wheels intelligent balancing vehicle had experienced strictly quality control. However, if we don't follow the safe riding rules, there will also be a security risk. At the same time we must remind you that once the vehicle go on roads or public areas, even if you fully comply with the safe riding specifications, it is also likely to face risk caused by others' illegal riding or improper operation.



Please strictly abide by the contents of this chapter. We will not be responsible for any property and personal loss, accident, legal disputes, and any other events involved in interest conflicts which caused by violation of the Guides for Safe Riding.

#### 4.1 Must comply with

- ◎ Understand and strictly abide by the local traffic laws and regulations.
- ◎ Please take effective safety measures before riding. Wear an examined helmet which is suitable for your head, equipped with a belt, and able to protect the back of your head. According to the past experience, riders should wear gloves, eyes equipment, waist support, knee cap and other protecting equipment.
- ◎ Before riding, make sure that you are in good condition and sober without taking in wine, sedative or stimulant at least 6 hours before. When you are unwell or cannot comply with the instructions or warnings of this manual, please do not ride.

- ⌚ Check before you riding each time, make sure that all the exposed parts without looseness, drops, damage, and no unknown or warning ring when you are riding. Before the fault has not been ruled out, do not ride.
- ⌚ Check the power after starting up, when shortage, please don't ride for long distance. When it was at low power and continue to issue warning ring, please get off and charge in time to ensure your safety.
- ⌚ Maintain appropriate alert when you are riding, and keep reasonable safety distance with pedestrians or other vehicles.
- ⌚ When share your vehicle with others, please ensure that they have read this manual carefully.
- ⌚ Please use the recommended storage bag, side locker or carry a backpack to carry items. Don't put any items on the pedals. The total load weight of the joystick should not be heavier than 1 kg, otherwise it will affect the body's balance.
- ⌚ Before moving the intelligence balancing vehicle, please make sure that the power has been closed. Otherwise the tyres will quickly rotate, it may cause damage.
- ⌚ Please maintain and repair the vehicle regularly.

## 4.2 Strictly prohibit

- ⌚ Don't use the vehicle in areas where were prohibited to enter by laws and rules of the countries, regions, and management units.
- ⌚ No riding on risky and uncomfortable occasions, such as deep pit or cracks, slope more than 15 degrees, water deeper than 3 cm.
- ⌚ Don't ride on motorways. In some countries and regions, non-motorways also do not allow such vehicle, please refer to local regulations.
- ⌚ No riding in unsafe environment, such as places where storing inflammable and explosive gas, steam, liquid, dust, fiber that may cause fire or explosion events.
- ⌚ No riding in heavy rain, snow, icy road, water, wet soil road or other bad weather or road conditions.

- ⌚ It is forbidden for children less than 14 years old and men more than 60 years old to ride alone, they must be ride with the help of family carers. It is forbidden for pregnant women, alcoholics, mental patients, heart patients, limited mobility persons (such as the disabled) to ride.
- ⌚ It is forbidden for two or more persons standing on vehicle or carry others to ride, especially ban to carry or hold infants. Don't let your two hands leave the joystick at the same time.
- ⌚ No making and receiving calls or making other behaves that will lead to distraction while riding.
- ⌚ Don't lean on joystick or handle, otherwise you might be hurt accidentally. When driving, please be sure to keep at least one punch between your body and joystick (or handle).
- ⌚ No riding up and down on stairs, don't empty out in any case (such as cross obstacles at high speed). No straddling on the shoulder of the road by one wheels and riding on the stairs.
- ⌚ No retreating and turning back at high speed. No lateral riding in slopes.
- ⌚ It is forbidden for violate other provisions in this manual, especially contents in the "dangers" and "warnings" projects.

## 4.3 Safe/civilized riding notes

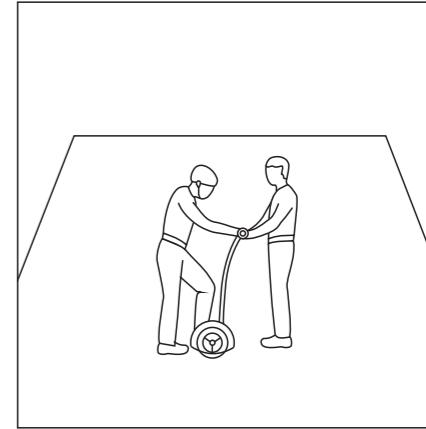
- ④ Before driving, please take the initiative to understand and comply with local traffic regulations.
- ④ Please ride courteously, keep a safe distance with pedestrians and other vehicles to avoid collision, and ready to stop anytime.
- ④ When you drive the vehicle, your height will be 20 cm higher than walking. Be vigilant when cross the doorway or close to the door, branches, signs, or other lower above obstacles, avoid to crash your head.
- ④ When driving, please keep your body relax, make your knees and elbows slightly bent, and look up.
- ④ Avoid to start or brake urgently.
- ④ Give way to pedestrians. Don't scare pedestrians, especially children. When cross from the back of pedestrians, warn them and slow down. When face to face with pedestrians, pay attention to keep a safe distance and slow down.
- ④ It is dangerous to cross the crowd at high speed. When cross the crowd, you must reduce speed and pass at the same speed with pedestrians. Don't pass pedestrians unless there is enough space.
- ④ When travel with other riders, maintain appropriate security distance, avoid the dangers and obstacles, and don't ride side by side.
- ④ Reverse driving is very dangerous. Try to avoid reverse driving, unless to cross obstacles, you can slowly reverse a few steps.
- ④ Try to avoid driving in bad light occasion. In that condition, you should open the headlights, slow down, keep vigilant, and confirm the sight is good.
- ④ Don't park your vehicle on areas where will hinder the pedestrians.

## Chapter Five

### Ride/experience the intelligent balancing vehicle

#### 5.1 Preparation

- ④ Choose an empty flat field, both indoor and outdoor are available, but there must be at least 4 m x 4 m area, not smooth and slippery, no motor vehicles, bicycles, pets, children or other objects that will lead to distraction.
- ④ You need a guide (coach) who had read this manual, familiar with the safety standards and cautions, and have ride experience, to provide guidance according to the instructions.
- ④ Wear the helmet and other protective equipment to avoid possible damage.
- ④ Twisting the height adjusting bolt at the joystick, adjust the joystick to the right height, to ensure that you can hold its hand comfortably.
- ④ Move the intelligent balancing vehicle to the center of the field.



#### 5.2 Start

Press the power button at the back of vehicle, it will make a "di" sound, the taillights and all the display lights on state dashboard will light up, then the self-check of vehicle have been finished. And then the state and power display lights will remain bright, it said that it is successful to start.

When the vehicle was in standby state, you can press the standby button on the remote key to start.



Please keep pedal in level state. If this is your first time to experience intelligent balancing vehicle, don't get on temporarily! Under the premise of safety, follow the steps below.

### 5.3 Notice before getting on

Stand behind the vehicle, hold handle by both hands or one hand to set the joystick right, and adjust the position of handle to keep pedal in level state. Then press the mode button on the remote key to switch to low speed mode. After ensured the vehicle had been kept in balance, you can get on.

If not turned on the power, or the vehicle was in wrong posture, do not get on. At that moment, balance function of vehicle has not yet started. Get on at this time, you will fall.

### 5.4 Get on

The beginner should hold handle lightly (avoid moving joystick laterally when you get on). At first put one foot on pedal. Then slowly put your gravity on pedal and lift the other foot on pedal (imagine your posture of getting up the stairs).



Keep relax, most beginners could ride skillfully in 3 minutes. Please believe the balance ability of the vehicle, imagine that the pedal is flat. After your body adapted for a while, you can stand steadily.

### 5.5 Forward/Backward

Lean forward slowly and feel the vehicle going forward, then return to original state and feel the vehicle decelerating and stopping. Turned to look at the rear and let your body lean backward slowly, feel the vehicle going back, and then return to original state, feel the vehicle decelerating and stopping.

Be careful not to hit wall or barrier, otherwise you will fall. You should go forward/backward step by step and practice several times to adapt to use your gravity to control the vehicle's movement.



Your motion should be slow and gentle. The more your body relax, the less shake will produce. Drastically shake back and forth is dangerous, it is easy to cause tyre slippage and out of control.

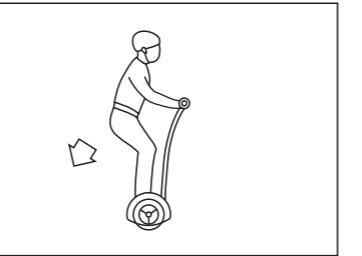


Riding backward is not a normal riding way. Do not retreat unless you just ride back for several steps. When met obstacles, you can turn and go forward rather than ride back. The vehicle will sound alarm when ride back.

## 5.6 Stop / Brake

Moving your gravity toward the opposite direction can make the vehicle stop. When you are going forward, just pull hips back gently (imagine that you are ready to sit down).

When stopped, evenly distributed your weight on the pedal to achieve stability. At the moment, if you continue to lean backward, the vehicle will move backward. Assign a spot, stop on the spot and keep stable. Practice several times.



Stop by gradual way, don't brake at high speed as far as possible. When riding at high speed, the emergency braking distance of intelligent balancing vehicle depends on adjusting speed of your body posture. Please note to slow down in advance.



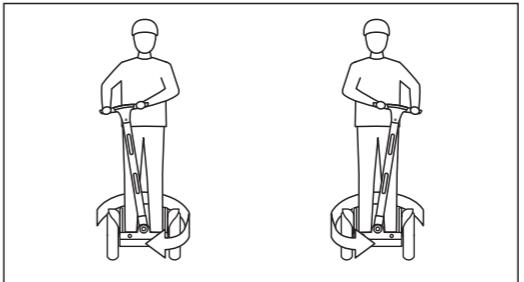
Avoid wet road when accelerating or parking as far as possible. Sudden acceleration on a wet road surface or emergency braking may lead to a skid, even a fall or hurt!

## 5.7 Turn

The intelligent balancing vehicle will turn according to the movement direction of the joystick. Lean the handle to right or left can make vehicle turn accordingly.

Turn in situ: stand steadily, slowly put handle to the direction where you want to move to, the vehicle will turn in situ, until to the angle you want to, you can return the handle. Turn left and right several times to master skills.

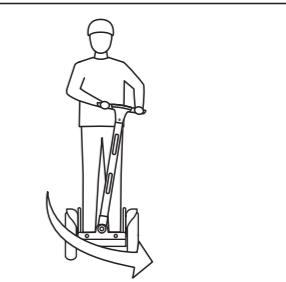
Turn when moving: slow down, keep your knees bent and ready to lean to the turning direction, keep the lean angle of your



Turn right in situ



Turn left in situ



Turn when moving

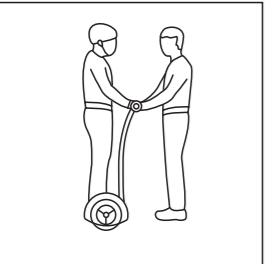


Whether you are in situ or moving, turning urgently is very dangerous, it is easy to let your body out of balance and you may be thrown out of the vehicle and fall down. So you must slow down when turning, you can also lean to the turning direction, it is helpful for turning stability.

## 5.8 Get off

Hold the joystick steadily by both hands, get off once by one feet (similar to the process of reversing a stair). Control your gravity, don't shake back and forth, especially don't move joystick, otherwise the vehicle will turn.

When you get off, don't let the handle go without shutdown, otherwise the vehicle will move forward, it may cause casualties



Beginners should ask your director to hold the handle and then get off. Be relax when get off, avoid to be nervous and move joystick. At the moment, moving joystick will make the vehicle turn, it may cause a danger.

## Chapter Six Daily maintenance

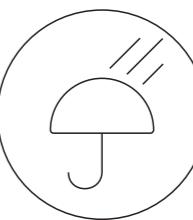
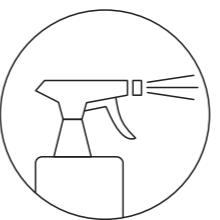
### 6.1 Clean and store

Please clean timely after use. Before cleaning, ensure that the vehicle was turned off, and the charging cable had been pulled out and had been covered by rubber. Otherwise it may be result a serious fault caused by short-circuit!

You can wipe the vehicle by soft cloth with little water.

Household shower and gardening nozzle are allowed to flush the tyres and fenders, the vehicle should be dry and placed in a ventilated place as soon as possible after flushing. It is strictly prohibited for cleaning the vehicle body by directly scouring by water cannon or being soaked in water for the whole machine, otherwise it may cause serious problems beyond repair.

when not be in use, store in shady and dry place as far as possible, don't store it in the outdoor for long time. Sunlight and extremely hot/cold environment will accelerate appearance aging.



## 6.2 Check tyre pressure

Typically, tyre pressure of intelligent balancing vehicle should be kept in 70~100 kpa. High tyre pressure will reduce the frictional resistance to extend battery range, but the damping effect is poor. Low tyre pressure will shorten battery range, but may be more comfortable on uneven terrain. Both too high and too low tyre pressure will accelerate wear.

## 6.3 Check whether screws are loose or not

All the screws in vehicle have passed the locking processing, they are not easy to loose. But for security, please check the tyre hubs, joystick, battery pack, fenders, pedal and state dashboard etc. Gently sway components by hands, observe whether components shake or make some loose sound. If they are loose, please tighten them.

## 6.4 Battery maintenance and transport

In order to extend the battery life furthest, please regularly check and maintain as following tips:

1. Please read the notes about battery pack and comply with them.
2. Please store the vehicle at 0°C ~ 40°C room temperature and dry environment. Please avoid using or storing it at below 20°C or above 60°C environment, otherwise the battery life will be influenced. In extreme wet circumstances, they may dew even water in the battery, it may damage battery quickly.
3. In daily use, avoid recharging after run out completely. If the state dashboard shows that power is too low, please charge as soon as possible. Try to charge after each use. Keeping in nearly run-out state for a long time will seriously affect battery capacity and service life.
4. If the battery was installed on the vehicle body, the remote control receiver in the vehicle will continuously consume power. It will run out the stored power after keeping on standby for 90~100days. If the battery which nearly run out installed on the

vehicle body, it will run out after keeping on standby for 10~20 days. At this time if we do not charge in time, it will soon discharge excessively and damage the battery. The damage is unrecoverable, and is not in the scope of the warranty. Therefore:

- a. Without using for short time (less than 90 days), you should charge the battery up to 100% as possible and store in shady and dry place.
- b. If you will store the battery separately for long time (more than 90 days), please charge the battery up to 100% every 2~3 months to remain the battery capacity and service life.

The battery equipped with a safety lithium ion battery core and multiple protection function circuit board, has passed the UN38.3 air transport certification and 1.2 m drop test certification. Normal use even collision will not result a battery fire or explosion. But for security, do not penetrate the battery pack with sharp object, smash it with heavy objects, or put it into fire or natural water which will cause dangers or environmental pollution.

Most airlines and main express companies such as UPS, DHL and TNT can deliver such battery pack by air on the condition that you show them with legal UN38.3 test report and other test certifications. However, we can't guarantee that all the express companies will be pleased to carry the battery pack considering the change of air transportation rules and different security policies of different countries, airlines and airports.

## 6.5 Regularly maintain and repair

Apart from fastening screws, changing tyre, fender and battery, there are no other user repairable parts, so do not disassemble it on your own. If you have any problems, please contact the authorized service provider.

Please send your vehicle to maintain and check so as to ensure your safety and the best performance of vehicle. The following table offers the maintenance items and cycles. The maintenance for the first time will be free.



The internal structure of intelligent balancing vehicle is very precise, to disassemble by yourself is likely to affect security. Expect the authorized person, anyone shall not disassemble, otherwise it will lose your warranty eligibility. For any mechanical damage and property/personal injury caused by disassemble privately, manufacturers and sellers will not undertake any responsibility. Judgment of unauthorized disassembly shall be based on the relevant mark on vehicle body.

About service outlets and more information, please consult the dealer.

## Contact us

In the process of using intelligent balancing vehicle, if you have any questions about riding, maintenance, security an so on, please contact us as the following way. We are very pleased to provide service for you.