

User's Manual Self-balancing Electric Scooter

- Thank you for choosing Self-balancing electric scooter series.
- Self-balancing electric scooter is a high technological, light and double wheels self balancing electric scooter.
- Before operating this vehicle read all the instructions for safe assembly and operation.
- <User's Manual > can guide you through the functions and usage of Self-balancing elect ric scooter.

⚠ WARNING!

- Before your starting, familiarize yourself with how to operation, so that you can keep the scooter in the best condition. Otherwise you will get crashed, fell down or lose co ntrol, etc.
- The <User's Manual> can help you learn safely driving this electric scooter.
- <User's Manual> has told all the instruction and notes the operator must read it caref
 ully and follow these instructions. If the operator failure to follow the instructions or vi
 olate the warnings, our company won't be responsible for any related results.
- If you want to get the services and technology support, you can contact the local agen cy or our company.

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Chapter I General Information

1.1 About the Manual

Before operating this vehicle, read all instructions for safe assembly and operation.

<User's Manual>can guide you through the functions and usage of Self-balancing electric scooter.

The user's manual is applied to all the Smart Vehicles made by Our factory.

If you have any questions or yo cannot get the information you want from the manual please contact the local agency or our company immediately.

1. 2 The risk of driving

Self-balancing electric scooter is a smart transport and recreation tool. Its technology and theprocess of production is tested seriously. However, if you don't follow the requests of the manual, you may get hurt.

⚠ WARNING!

No matter when and where, falling, losing control, crushing, etc, including violating the rules of the user's manual can lead to your hurt even death. In order to avoid getting injured, please readthis manual carefully.

1. 3 The preparation before operation

Before using, the battery should be checked whether full charged. Please find more details in Chapter VII. You will get injured when you don't obey the rules in the manual.

1. 4 Related explanation

Please pay attention to WARNING and NOTE which are all capital alphabets.

 ▲ WARNING!
 Your improper behavior will involve you into a dangerous condition.

 NOTE:
 The matters and the related using methods that need you, attention.

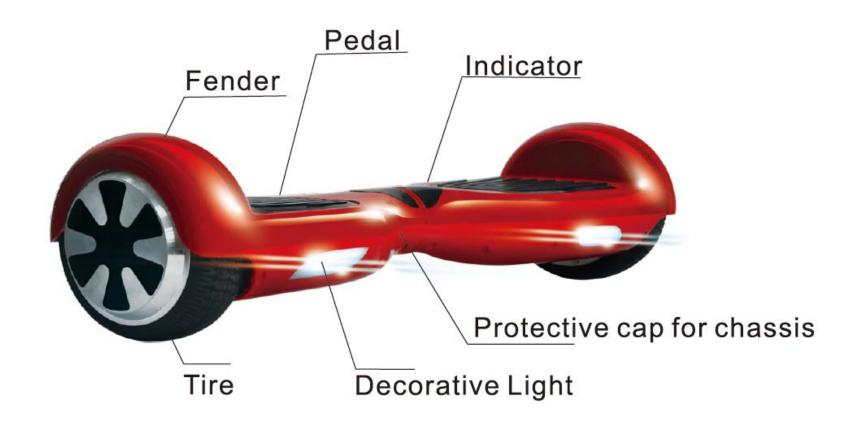
Chapter II Product introduction

2. 1 Description of the electric scooter

Self-balancing electric scooter which can go forwards, backwards, steering and stop controlled by Dynamic eq uilibrium. It possesses fashionable appearance, simple operation, easy to control, low-carbonand en vironmental protection, etc advantages. It is a great companion.

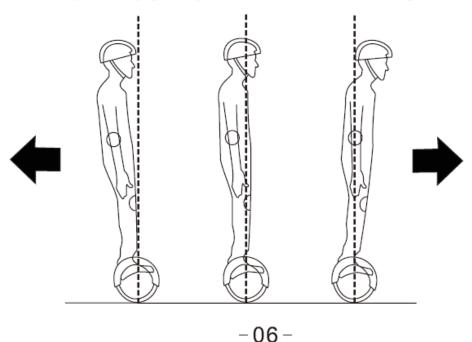


2. 2 Operating principal



2.3 Operating principal

- Self-balancing electric scooter adapts Dynamic equilibrium, using Internal gyroscope andac celeration sensors. The status of the electric scooter is controlled by the center-of gravity. An d it is adjusted by motor which is controlled by servo control system. When you lean forward, it will sense your actions to accelerate. When you need to swerve, slow it down and move you r foot forwards or backwards then the center-of gravity of the body moves left or right therefore the scooter can realize left right.
- Self-balancing electric scooter has inertial dynamic stabilization system, so it can keep anterior-p
 osterior balance but cannot guarantee the left and right. So when swerved, the scooter need oper
 ating slowing, otherwise, you may get injured because of the large centrifugal force.



Chapter III Controllerand information indicate devices

The remote control of self-balancing electric scooter is equipped with a remote control, and the distance isabout 5 meters. It can be controlled within the distance range.

The controller sells separately (optional item)



TURN OFF: When the scooter is turned on without being operated long press this button the scooter can be powered off.

LOCK: When the scooter is turned on without being operated for a long time the scooter will locked automatically, then the scooter cannot be operated. Push this button, the scooter will be unlocked.

The maximum control distance of the remote control will be shorten with the descending of the battery. When the scooter is turned on but without being operated in 10 minutes, it will be turned off automatically. However when the scooter is locked, it won't be turned off automatically. The battery will be descending faster instead, so when the scooter is turned on without being operated for a long time please turn off it.

2 Pedal sensor

Self-balancing electric scooter has 4 sensors below the pedal, when the operator step on the pedal, the scooter will adjust itself to balancing pattern automatically.

When riding it, you have to make sure that the pedal is being stepped on, please don't step on the partsoutside t he pedal.

Don't put things on the pedals to make the scooter cannot be turned off and increase the possibility ofcrushing and even cause personal injury and damage the scooter itself.

3. 3 Indicator

The indicator is located in the middle of the scooter. It is applied for operation information.

- Battery indicator part: green light means full charged, when the green light turns yellow means there ishalf battery, turns red means 20% battery, the scooter need charging.
- Operation indicator: When the pedal is triggered the operation indicator will lights then the systemcom
 e into operating condition; when the system runs error, the indicator will turn red.

3.4 Bluetooth Speaker Function



- a. Self-balancing electric scooter within Bluetooth Speaker function.
- b.intelligent Bluetooth connect: free to connect ipad, phone,notebook and other digital device.once connect,it will connect automatically

About Safely Use

We hopes every operator can ride the scooter safely and enjoy it. Thinking back to the experiences whenyou le arn riding bike, driving cars, go skiing or use other transportation tools, all of them can help youlearn the scooter faster.

- Follow the <user's Manual>, you can ride self-balancing electric scooter safely. We highly advise youread the
 manual carefully at the first time. Before riding, make sure the tire is whether good, the spare parts is whether
 tight. If there is anything abnormal, please contact the agency for repairing immediately.
- Please read the manual carefully, from it you will get much important information, including speed limitati on, indicator warning and turn off safely, etc.
- Please never use the scooter do anything may cause personal injury and property loss.
- Please don't modify the spare parts of the electric scooter. Because it can influence the capacity of the scooter badly and even destroy it, meanwhile, there are some side-effects may happen.

4. 1 The weight limitation of the operator

• The reason of the weight limitation: 1. guarantee the safety of the operator; 2. decrease the damage of overloa ded.

Maximum load : 100KGMinimumload : 20KG



Overloaded you may fell down.

4. 2 Range per charge

The range per charge is related to many factors, for example:

- Topography: On even road, the range per charge will be increased, on the contrary, it will be decreased.
- Weight: The weight of the operator can influence the driving distance.
- Temperature: Place the scooter at a appropriate temperature will increase driving distance. On contrast, if place it at an extreme temperature will decrease the driving distance.
- Maintenance: If the scooter is charged properly and the battery is kept in good condition will increase the driving distance, on contrast will decrease the driving distance.
- Speed and driving style: keep a moderate speed will increase the driving distance on contrary, frequently st art, stop, acceleration, deceleration will reduce the distance.

4. 3 Max. Speed

- The max. speed of the scooter is 10km/h.
- When the operator exceeds the max. speed, the scooter will give out alarm sound.
- In the permissive speed, the electric scooter can balance itself well. When the speed is faster than the permissive speed, it will turn up to warn the operator toslow down.

Chapterv Learn how to use it

<User's Manual> has told all the instructions and notes, the operator must read it carefully and followthese in structions. It is very important for you to know all these notes.

5. 1 Learn how to use it

- Step 1: Press the power switch to turn on self-balancing electric scooter.
- Step 2: The preparations for driving. Firstly step on one foot trigger the foot-switch, the system will come into s elf-balancing condition. Then step on the other foot to operate it.
- Step 3: Take control of the scooter forwards or backwards, do remember magnitude Of your body shouldn't be violently.

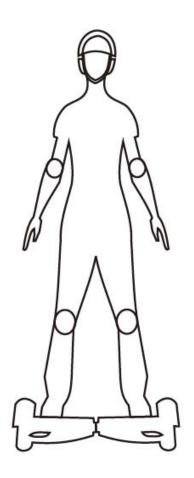


oesn't at balancing condition when you trigger the foot-switch, the buzzer will alarm, and the warning LED will light, the system cannot come into self-balancing condition. At this moment you shouldn't operate.

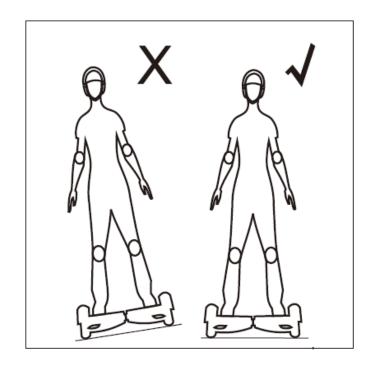
If the scooter d

Step 4 : Control the left and right direction of the scooter.

Step 5 : Get off. Before you get off, make sure that the scooter is still, then step off one foot, finally theother foot.







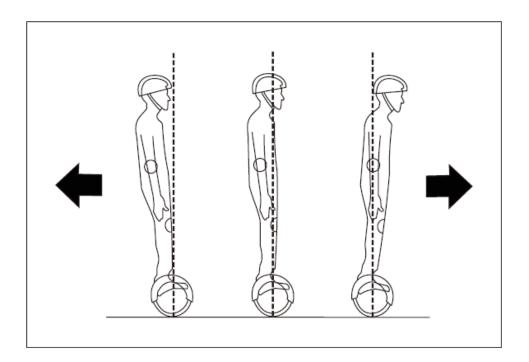


Diagram of operation

⚠WARNING!

You are forbidden to swerve violently when driving fast, otherwise will cause dangerous.

You are forbidden to ride sideways or swerve on the slope. It will lead to the balance angel skewing then influence your safety.

5. 2 Protect function

- During operation, if the system runs error or being illegal operations, the scooter will prompt operators in different ways like prohibit riding, alarm indicator lights, buzzer alarm beeps intermittently, the system cannot enter self-balancing mode.
- When step on the scooter, the platform go forwards or backwards more than 10 degrees.
- The voltage of the battery is too low.
- During charging.
- During operation, the platform upturned, prohibit operation.
- · Over speeding.
- The battery is notenough.
- The electric scooter shaking back and forth more than 30 seconds.
- System enter into protection mode, alarm indicator lights, buzzer alarms of high frequency.
- The platform go forwards or backwards more than 35 degrees, the electric scooter will directly into thestop mode.
- Tire stall, two seconds later the electric scooter enters power off mode.
- The battery voltage is lower than the protection value, 15 seconds later the electric scooter enters into power off mode.
- Continuing large current discharge (such as a long-time climbing a very steep slope), 15 seconds laterthe
 electric scooter enters into power off mode.

When the scooter enters into the shutdown state, the system will lock down the machine automa tic ally. It can be unlocked when you press the lock button. When the battery has been depleted or the sys tem gives out information with safely shutdown, please do not continue to drive the scooter, otherwise, the car cannot balance for the lack of battery. In this condition, the driver is likely to be harmed. If the b attery reaches minimum, the continue driving of the scooter will affect battery's life.

5. 3 Riding practice

Before you drive the scooter outdoors, please make sure you are familiar with the skills of driving it:

- Try to wear casual clothing and wear flat shoes to maintain the flexibility of the body.
- Please go to open spaces to practice driving the scooter until you can easily get on, forwards and backwards, swerve, stop and get off.
- Make sure the pavement is whether even.
- You can driving on different terrain, when you are unfamiliar with the terrain you must slow down. At any time you can driver the scooter off the ground.
- Self-balancing electric scooter is a transportation tool is designed for smooth road. When it is traveled on un even pavement, the user should slow down.
- If you are unfamiliar with the scooter, please avoid driving to places with pedestrians or obstacles or have potentially dangerous. Be careful when you through the door, and ensure the scooter can passthrough.

Chapter VI Safely driving

This chapter will focus on safety knowledge and warnings. Before operating this vehicle, read all the instructions for safe assembly and operation. <user's Manual > can guide you through the functions and usage of Self-balancing electric scooter. To ensure our products bring you the best driving experience, the I to read the user manual carefully before drive.

⚠ WARNING!

- Before your starting, familiarize yourself with how to operation, so that you can keep the scooter in thebest c
 ondition. Otherwise you will get crashed, fell down or lose control, etc.
- When you are learning the scooter, make sure that all safety measures are made. Like wearing ahelmet, knee pads, elbow pads and other protective gears.
- Self-balancing electric scooter is only for personal entertainment. You are not allowed to ride it onpublic transport.
- Self-balancing electric scooter is not allowed on the motor vehicle lanes.
- Children, the elderly, pregnant women are not allowed to drive.
- Do not drive after drinking or taking drugs.
- Do not carry items when driving.
- When driving the scooter, you should comply with local traffic laws, and give way to pedestrians.
- Please be alert to things in front of you, maintain good vision will help you drive the scooter safely.
- Relax your legs while driving, knees slightly bent, it can help maintain balance when encounter unevenground.
- In the process of driving, make ensure that the feet are always stepping on the mat.
- Please wear appropriate clothes, this will help you to handle emergencies better.
- Self-balancing electric scooter can only load one person, cannot load two people or more than two people.
- Do not start or stop suddenly.
- Avoid driving on steep slopes.
- Do not drive in dimly it or dark places.

- The weight of the user and their belongings should not exceed the maximum load indicated in the ins
 truction, otherwise the driver may easier to fall Or be injured, or even damage the electric scooter. In
 addition, the driver's weight should not be less than the minimum weight as marked in the instruction.
 Otherwise it will cause the scooter cannot be manipulated, especially when riding downhill, the scoo
 ter can not be safely reduced speed or stopped.
- Ensure the vehicle speed is safe to yourself and others, and be ready to stop at any time when op erating.
- When you are coming across a traffic accident, please remain at the place awaiting the arrival of the relevant departments to deal with it.
- When you are driving the scooter along with other driving user, please keep a certain distance fromeach other to avoid collisions
- You should always keep in mind while driving the scooter your body increases a height of 10cen timeters, pay attention to your head when through a door.
- When steering you should notice your body's center of gravity, the violent shift of center of gravity maycau se you in danger.
- Do not riding in rainy days as well as long-distance backwards, high-speed backwards, turning at high-spe ed backwards, over-speeding.
- Do not riding in rainy days as well as long-distance running backwards, high speed backwards, backwards at high speed cornering, speeding.
- The personal transport is not to design, test or relevant way to becoming medical device. Therefore, the user must ride the electric scooter by self.
- Avoid driving to obstacles and smooth ground such as snow, ice, and slippery floor.
- Avoid driving on items made of cloth, small branches, stones.
- Avoid driving in narrow spaces or where there is an obstacle.
- Please drive the scooter at the proper environment, if the environment need to obtain permission from the ers, please get their allowance.
- Prohibit the use of an unsafe environment. These unsafe environment means that due to flammable, vap or, liquids, dust or fibers and other reasons may cause fire.

This chapter mainly discuss the charging methods, how to maintain the battery, the safety issues youneed to pay attention to, and battery specifications. For safety of yourself and others, and maximum extend the battery's life and improve battery performance, please make sure to follow the following operations to use the battery.

7. 1 Low battery

When you find the battery indicator is red and flashing, it indicates low battery. It is recommended that youto stop driving. When the power is low, there is not enough energy for your normal driving, then the system will automatically tilt the base of the platform to prohibit the operator's continuing to use; It is very easy to fall if you insist on driving at this time, and also affect battery's life.

- Do not use the battery in the following cases,
 - 1. Giving out some odor or excessive heat.
 - 2. Leakage of any substance.
- It is restricted to industry insiders to disassemble and maintain the battery.
- Do not touch any substance leaking out of the battery.
- Do not let children and animals touch the battery. Before installing the battery the driver must pull out the battery or charger. When charged, you cannot do anything with the electric scooter.
- Batteries contain dangerous substances inside, do not open the battery, do not insert anything into the battery.
- Only using chargers offered by our company.
- Don't charge excessive discharge of lithium batteries. Excessive discharge of the battery has asecurity risk, only to scrap.
- The battery can only be used under the permission of the local law

7. 2 Charging steps

- Ensure the charging port is dry.
- Open the cover of the charger at the back of the electric scooter.
- Firstly plugged the switch into the power interface(100V-240V; 50, 60Hz), verify the green light lights properly, then plug the other end of the charger into the scooter.
- When the red indicator lights on the charger indicates charging properly, otherwise check the line is wheth er connected.
- When the indicator light on the charger from red to green indicates that power is fully charged. In this case, please stop charging. The charging time will affect the battery life.



- Note to the use the local standard plug.
- Please charge, store in accordance with the instruction, otherwise it will damage the battery, affecting ba ttery's life.
- The charging time is approximately 2 hours, over-long charging time will affect battery's life.
- Please keep the charging environment clean and dry,
- When charging port is moist, don't charge it.

7. 3 The temperature is too high or too low

- If you want the scooter in good operational efficiency, the battery temperature must be controlled among the range of specification.
- Temperature before charging and charging process must be within the recommended values. Close to the re commended temperature, the charging efficiency is the highest, if it is too cold or hot, the charging time will be longer, or not fully charged.

7. 4 The specifications of the battery

NAME	PARAMETERS
Battery	lithium-ion battery
Charging Time	2-3Hours
Voltage	36V
Initial Volume	4.4AH
Working Temperature	-15°C - 50°C
Charging Temperature	0°C - 40°C
Relative Humidity of Stprage	5% - 95%

7. 5 The transport of the battery



Lithium batteries are considered hazardous materials. The transport of it need to get the local lawallows.



If you need to deliver the electric scooter with lithium batteries in by air, or need to use any otherkinds of transport to deliver the battery alone, please contact with us.

Chapter VIII The maintenance of the electric scooter

Self-balancing electric scooter need to be maintained, This chapter mainly describe the relevant stepsand important operation reminders to maintain it.

Please make sure that the power and charge coil are off before you do following operation. You forbid to. Attenti on Matters before cleaning:

8. 1 Cleaning

- To make sure the power and the charge coil are off.
- To wipe the shell of electric scooter with soft cloth.

△WARNING!

- The level of dust-proof and waterproof is IP54 and can prevent wee dust and splash.
- Avoid water or other liquids seep into the scooter so that the host cause permanent damage to the internal electronics.

8. 2 Storage

- Before storage, fully charge the electric scooter to prevent battery over discharge due to a long timenon-use.
- If stored more than months, remove the battery. And at least discharge the battery every three months.
- If the storage temperature is below 0 degrees Celsius, please don't charge the scooter, You can place itin a w arm environment (higher 10 degrees Celsius) for charging.
- You can mask the scooter, in order to prevent dust affect performance.
- Keep store the scooter indoors, put it at the place with dry and suitable temperature.

△WARNING!

 To protect user security, users are forbidden to open the scooter, or means that you give up your warranty rights.

Chapter IX The specification of the electric scooter



Specification				
Name	Parameter	Remark		
Net Weight	10KG			
Minimum Load	20KG			
Maximum Load	100KG			
Maximum Speed	10KM/H	Distance various depending on terrain. driving style and load.		
Range Per Charge	15-20KM	Depending on load.		
Climbing Capacity	15°			
Radius Of turning Circle	O°			
Energy	Rechargeable Li-ion Battery			
Charger Voltage	100-240V 50-60HZ			
Dimension	548X186X178MM			
Chassis Height	30MM			
Pedal Height	110MM			
Tire Mode	Free Inflatable Hollow Tire			

Chapter X Packing list

NO.	Name	Quantity
1	Self-balancing electric Scooter	1
2	Charger	1
3	Manual	1
4	Remote Control(Optional Function)	1

Hope you can enjoy it!

FCC Statement

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.
- To assure continued compliance, any changes or modifications not expressly approved by the party.
- Responsible for compliance could void the user's authority to operate this equipment. (Example- use only shielded interface cables when connecting to computer or peripheral devices).

This equipment 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.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.