



IPS

INSTRUCTION MANUAL



IPS

CAUTIONS

- 1. PLEASE READ THE INSTRUCTION MANUAL CAREFULLY BEFORE USING THE IPS SELF-BALANCING UNICYCLE;**
- 2. PLEASE KEEP THE SPEED IN THE SAFE RANGE WHICH IS UNDER 10km/h;**
- 3. THE PEDALS MAY TILT UP SLIGHTLY AT A SPEED OVER 12km/h, WHICH IS A NORMAL PHENOMENON. THE PEDALS MAY TILT UP MORE, WHICH IS A SIGN OF DANGEROUS. THIS IS REMINDING YOU TO SLOW DOWN AND KEEP A SPEED WITHIN THE SAFE SPEED 10km/h. PLEASE NOTE THAT THE UNICYCLE WILL NOT STOP SPEEDING UP EVEN REACH THE TOP SPEED 16km/h WHICH MAY CAUSE DANGEROUS. SO IT IS VERY IMPORTANT TO CONTROL IT WITH A PROPER SPEED;**
- 4. CONTROL IPS CAREFULLY ON A LOW SPEED WHEN YOU CROSSING A RUBBER ROAD HUMPS;**



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- 5. CAREFULLY CONTROL IPS ON A LOW SPEED WHEN YOU GO UPHILL;**
- 6. FIRST-LEARNERS ARE NOT SUGGESTED TO RIDE IPS IN A CROWDED PLACE OR ON AN ACCIDENTED GROUND;**
- 7. DO NOT RIDE IPS IN DRIVEWAY;**
- 8. RIDING IPS ON RAINY DAY IS NOT RECOMMENDED. SLOW DOWN THE SPEED IF HAVE TO;**
- 9. MAKE SURE YOUR IPS IS FULLY CHARGED BEFORE USING. THE INDICATE LIGHT WILL FLASH CONSTANTLY WHICH IS REMINDING YOU THE UNICYCLE IS OUT OF BATTERY . ANOTHER INDICATION IS THAT THE LEFE PEDAL WILL TILT UP.**
- 10. THE INDICATE LIGHT WILL TURN TO RED WHEN THE UNICYCLE STOPS AND FALLS DOWN. HOLD IT UP AND SHUT DOWN THE POWER IMMEDIATELY. IT IS ON A NORMAL USAGE IF THE GREEN LIGHT IS ON WHEN YOU PRESS THE POWER BUTTON AGAIN.**

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1.Safety Precaution



Riding on an IPS unicycle is a new and interesting way of moving. You should learn the following instructions carefully to avoid hurting yourself by bumping, falling down or losing control.

Please note that necessary information and most conditions will be presented in this book. But we do not ensure that all kinds of emergencies are included. We suggest you to ride IPS unicycle on a proper speed carefully for the sake of safety.

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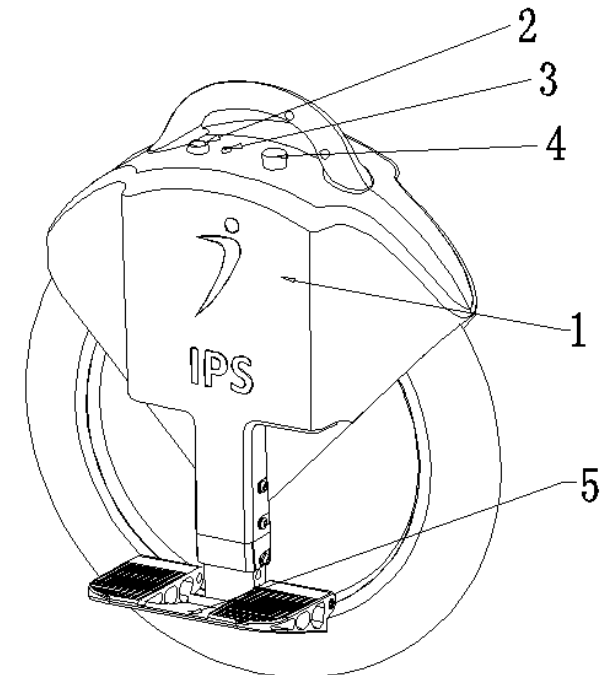


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2. IPS Product Structure

Including an IPS self-balancing unicycle, a charger, a safety belt, an air faucet and an instruction book.

- 1) Plastic Cover
- 2) Power Button
- 3) Indicate light
- 4) Charging Socket
- 5) Fold-up foot pedal



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3.The meaning of indicate light

3.1--When the green light is normally on or flash:

1. When the green light is normally on: the battery power is more than 67%;
2. When the green light flash(about once per second): the battery power is between 33% and 67%;
3. When the flashing frequency is higher(about 5 times per second): the current power is less than 33%.

3.2--When the indicate light is red:

It indicates that the battery power is very low and immediate charge is necessary.

3.3--When the red light is flashing:

1. It shows that the IPS vehicle is in danger, you should stop immediately and turn off the power;
- 2.If the problem is not solved with fully charged battery, please send the vehicle for maintenance.

4.Riding

4.1--Notices

4.1.1 Use hand-belt to ensure your riding safe

Before you are skilled in riding IPS, using hand-belt can help your IPS avoid damage.

Tie up the hand-belt on the handle of the vehicle. Put a foot on the pedal and adjust the length of the hand-belt to a comfortable position;

When you are losing balance while riding, stop the vehicle from falling down by holding the hand-belt.

4.1.2 How to keep balance

IPS self-balancing unicycle is gyroscope-stabilized;

IPS self-balancing unicycle will perceive your action and speed up when you lean forward. And it will slow down when you lean backward;

Like riding a bicycle, certain speed is needed to keep you balancing to left and right;

Do not ride on a slippery or sand-covered ground. IPS self-balancing unicycle maintains balance by the friction force between wheel and the surface.

4.2--Preparation before riding

1. Choose a suitable site to begin with: please find a ground which is flat, open and no obstacles;

NOTE: IPS self-balancing unicycle is a sports toy rather than a transportation vehicle. Please do not ride IPS on the driveway or pavement. Otherwise it may cause danger.

2. Check the vehicle before riding: make sure the battery power is enough and there is no abnormal sound or rub in the vehicle;
3. Grab the hand-belt tightly and adjust the length properly;
4. Remember to wear protective gear while riding, such as helmet, elbow and kneepad, to avoid unnecessary injuries;
5. Please keep the cushion of the gaiters close to the unicycle when learning;
6. More information contained in the riding part below.

4.3 How to ride

4.3.1--Turn on the power

- <1> Use one hand to grab the handle, put the vehicle on the ground with the foot pedal put down;

<2> Press the power button and the indicate light is green;

<3> Do not try to ride if the indicate light is red;

<4> We recommend you to drag the vehicle forward and backward several times to feel the strength acceleration and deceleration

4.3.2--How to start

You may use a wall or something for help when you find the balance at the beginning. Under the help of others, try to stand up on the unicycle and then move forward a little by leaning forward your body. When you get used to it, you can ride IPS freely without any help.

4.3.3--Change directions

We suggest you to adjust the gradient of the vehicle for turning left or right by adjusting the press of foot, instead of moving your body.

4.3.5--Pay attention to riding safely

We believe that you have learned how to ride IPS self-balancing unicycle. We strongly recommend you challenge the actions you have not tried ONLY on the basis of completely understanding the vehicle performance. **The power of IPS is limited. It may bring unnecessary hurt with inappropriate operation , so remember to drive carefully.**

5. Charging

- ① There is a lithium-ion battery contained in the vehicle. Make sure the battery is fully charged when you ride it first time;
- ② Ensure a clean and dry environment when charging. The charger is connected to the IPS self-balancing unicycle and AC power outlet and the red indicator light indicates charging is in progress;
- ③ Charging process will take about four hours and be completed when the indicate light turns green.

Notice during charging :

1. Only the charger has charging indicator, so the vehicle cannot detect charging;
2. The specific meanings of indicator on the charger are included in the charging section below;
3. DO NOT ride the vehicle while charging.

6. Maintenance

PLEASE NOTE THAT ALL THE MAINTENANCES ARE ONLY EXECUTED BY PROFESSIONALS.

6.1--Preservation

- ① Don't keep your IPS in a damp environment;
- ② Charge IPS regularly to extend the battery life even if it would not be used for some time. Please contact us for battery replacement;
- ③ Use a damp cloth and warm detergent to clean your IPS.

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- ④ The storage temperature of IPS self-balancing unicycle is around 20°C. A temperature that is too high or too low will harm the battery. Do not use the unicycle at an environment with a temperature over 50°C. Do not make a long exposure over 40°C.

NOTE: DO NOT put IPS in a car for too long in a hot weather. The heat will harm the battery and a dangerous burning may happen.

6.2--Replacing tires

- ① You need hexagon screwdrivers and a phillips screwdriver.
- ② Use a phillips screwdriver to loosen All screws (including screw on the handle), 7 each side;
- ③ There are six hexagon screwdrivers under both sides of the pedal. Loose the six screws on the other side of the battery. Note: NEVER twist the screws on the battery side, otherwise there will be no warranty(indicated on the shell).

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- ④ After unscrewing these screws, open the plastic cover in order to the handle without affecting the tire removal. There are a number of wires in the handle area. Do not pull off these wires. Now you can replace the tyre and repair the tyre tube.
 - ⑤ Install the cover onto its original position and tighten the screws after reparation.

6.3--Adjust the pedals

You may adjust the pedals by twisting the screws to a proper tightness.



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FAQs

1.Starting Up

It will take about 2 seconds to power up the IPS after you turn on the power and the indicate light turns green. Make sure the unicycle is with moving power before you ride it. Do not try to ride the IPS if the indicate light turns red. You may send it for maintenance.

2. Unable to start up

If the unicycle has no reaction after turning on the power, please charge the battery immediately. Send for maintenance if the problem cannot be solved with battery fully charged.

3. Low battery

The indicate light will turn red and keep flashing when the IPS is out of battery. At the same time, the unicycle will limit the speed to a low level by tilting up the pedals. You should stop riding the unicycle and charge it immediately.

4. Red light flashes after charging

If the red light keeps flashing after charging, we suggest you to lay the unicycle on the ground with power on for 2 hours. If the problems cannot be solved after you restart the IPS, please send it for maintenance.



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5. Uphill and downhill

Since the ability of going uphill and downhill is limited due to the motor power and torque value, we suggest to ride on a low speed when you go uphill and downhill. The IPS is more capable at climbing and protected from damage because of a greater torque.

6. Do not accelerate or stop sharply

The IPS has sufficient capacity to keep the rider balanced during riding. A sharp stop or acceleration may cause dangerous since the motor power and torque value are out of a safe range. Please ride IPS carefully for security considerations.

7. Limit your speed

The IPS keeps balance with enough torque power on any speed. So the only way of limiting the speed is to restrict the rider's action, which is to tilt up the pedals. When you find the pedals are tilting up highly, stop leaning forward any more to slow down the unicycle. Otherwise it may cause dangerous.

8. Costume or dress

IPS officially does not interfere any decorative modification on the surface. However, DO NOT change the battery inside or even costume it. We are not responsible for any damages caused by electro circuit which is due to a inappropriate change of battery. IPS provides paid maintenance services.

