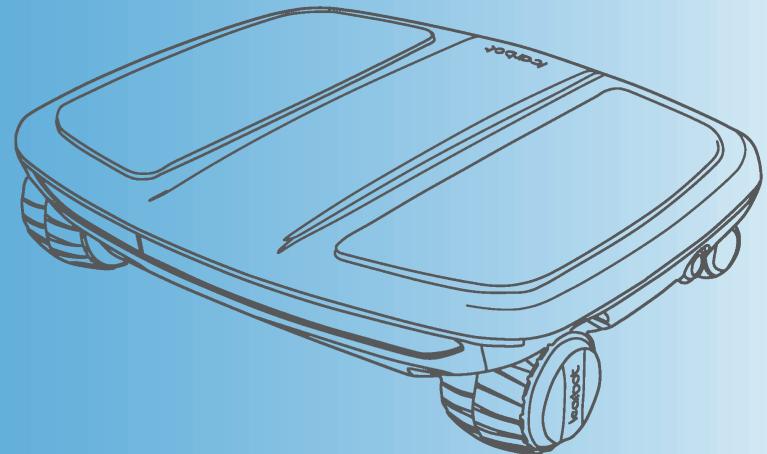




# lcarbot Manual



I . Product Accessories and Packing List .....	2
II . Functional Diagram .....	2
III . Product assembly .....	3
IV . Connect the charger .....	4
V . First use .....	4
VI . Learn to ride .....	5
6.1 Preparations .....	5
6.2 Riding Steps .....	5
6.3 Riding Skills .....	6
VII . Replace the battery .....	7
VIII . Safety knowledge .....	7
8.1 General knowledge about security .....	7
8.2 Safety use .....	8
8.3 Safety charging .....	10
8.4 Security Maintenance .....	11
8.5 Security Repair .....	11
IX . Specification parameter .....	11
X . Common problem treatment .....	12
XI . Trademarks and legal statement .....	12
XII . Warranty policy and description .....	12

## Icarbot Instruction

### Welcome

Thank you for choosing icarbot, this is one super convenient intelligent somatosensory electric flat car, one somatosensory flat car which can be put into backpack, one fashional entertainment equipment.

Icarbot is safety, easy to learn, convenient. It solves many problems of traditional balance car, like the low safety, difficult to learn, big, difficult to carry etc. .

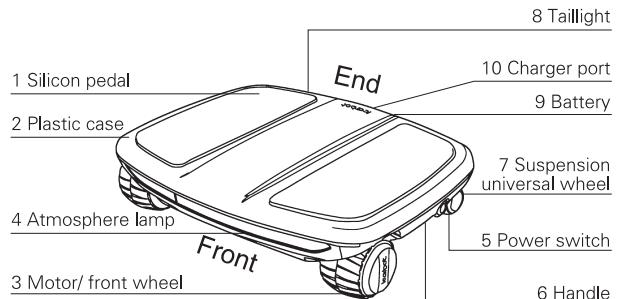
Icarbot relies on the electric drive and uses pressure transducer and turn control IC to realize moving, accelerating and turning. The main elements are two motors, pressure transducer, main board, two assistant universal damping wheels and shell case, it is very stable. You just spend two minutes to learn it and the weight is light as the laptop. You can carry it easily with backpack/ handbag.

Name	Qty	Unit	Description
Icarbot	1	Set	Standard Configuration
Charger	1	Piece	Standard Configuration
Battery set screw	1	Piece	Standard Configuration
Instruction	1	Piece	Standard Configuration, Please Scan the QR Code to Download Instruction
Certificate of Qualification	1	Piece	Standard Configuration
Warranty Card	1	Piece	Standard Configuration, Please Scan the QR Code to Download Instruction
Backpack	1	Piece	Optional

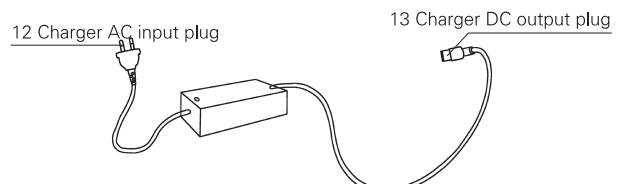
Please check well all the things are goods, if something is damage or losing, please contact to F-WHEEL after sales department.

Tel: +86-755-61665631 Web: [www.fwheel.cc](http://www.fwheel.cc)

### II . Functional Diagram



(Picture 1)

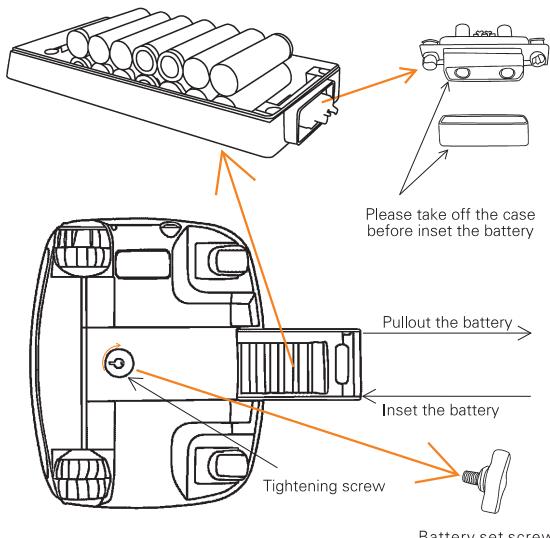


(Picture 2)

## Function description:

- Pedal: Carry the body, and stand as the arrow shows. When it turns on, you can't shake left and right or you will fall.
- Plastic casing: Connect pedal and loading parts.
- Motor: Provide power for the scooter. Riding for a long time, the motor may be heating, please don't touch.
- Atmosphere lamp: can choose different colors by APP.
- Power switch: Turn on/ off, Press the power button one second will start the icarbot, if you press the power button about three seconds will turn it off.
- Handle bar: Lift icarbot up when turning off.
- Suspension universal wheel: Help walking and turning after it turns on.
- Turning taillight: when you turn left, the left light will blink; when you turn right, the right light will blink; when you go straight, the two lights will still on; when you brake or turn back, the two lights will blink.
- Battery: Provide energy for icarbot, the battery is removable, you can charge it when you in the icarbot or out of icarbot.
- Charging port: Connect with USB charger device, when it is charging, you can slide the charging port slider with charging plug.
- Icarbot body: Carry the body weight and protect the control device.
- AC plug: Connect mains and charger, which can be charged in 100–240V.
- DC output port: Connect battery and charger without specific direction.

## III. Product assembly

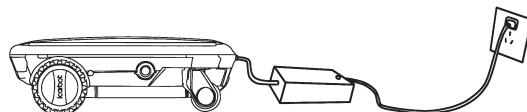


(Picture 3)

- Take icarbot out from the package, then take the battery out and rip off the protective cover.
- Put the battery into the battery bay, mention the direction.
- Tighten the screws.
- Installation finished.

## IV. Connect the charger

( Tip: charging more than 5 hours for the first time )



(Picture 4)

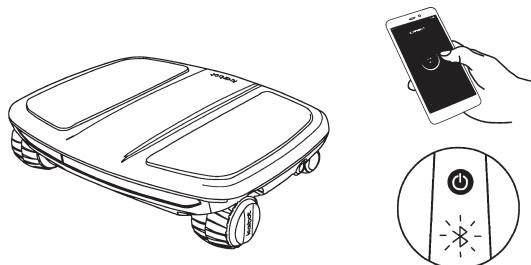
- Connect charger with body, attention that you can slide charging protection cover with charging plug without specific direction.
- Connect mains and DC plug.
- You should charge at least 5 hours when first charging, to ensure the battery is activated.

Tips: For the new icarbot, you should use it after charging.

## V. First use

It has certain risk for the tiro, you must use it after learning the using method by instructional video and user manual.

- 1 Put icarbot on the flat ground.
- 2 Press the power switch to turn icarbot on.
- 3 Open installed smartphone App to connect Bluetooth.
- 4 After connecting Bluetooth, strictly operate according to APP.



(Picture 5)



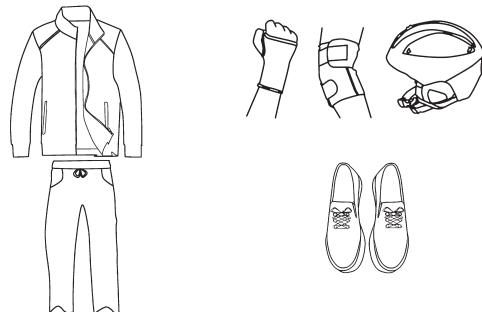
You can download and install F-wheel mobile phone client by Android or IOS smartphone, you should drive your icarbot carefully after learning the user manual very well. Or you can search icarbot in Application store or App store, or you can scan QR code in left picture to download the icarbot App.

App Two-dimension Code

## VI. Learn to ride

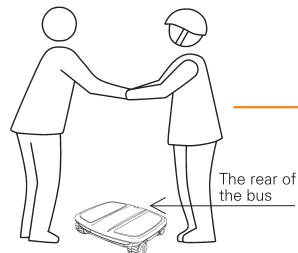
### 6.1 Preparations

- A For the beginner, Please try to wear comfortable clothes or sports clothes and dressed flat shoes, and wear a helmet and protective equipment such as elbow pads.
- B Please choose the right site, site require flat road and no obstructions, no vehicles and pedestrians.
- C Before Riding, please check the below.
  - Electric quantity lever.
  - If there is the car body shaking or abnormal noise.
  - If there is friction between wheels and car body.
  - If Start is normal.



(Picture 6)

### 6.2 Riding Steps



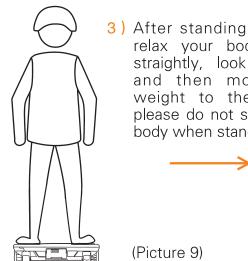
(Picture 7)



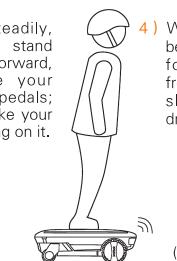
(Picture 8)

- 1) First riding, please ride on smooth ground, step on icarbot from rear side with assistance.

- 2) Step your feet on icarbot one by one; please do stand in the middle of the black pedals or it will influence the stability.



(Picture 9)



(Picture 10)

- 3) After standing steadily, relax your body, stand straightly, look forward, and then move your weight to the pedals; please do not shake your body when standing on it.

- 4) When you hear the beep, move your weight forward or tread the front part of the pedals slowly, then you will drive the icarbot.



#### Note:

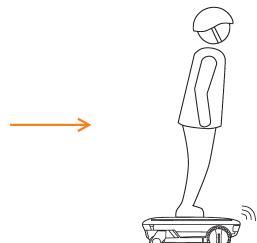
In case of accident, learners should ride with assistance—either from a companion or from a wall.

Learners can download instruction video from icarbot official website: <http://www.fwheel.cc>.

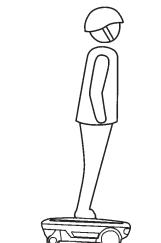
### 6.3 Riding Skills



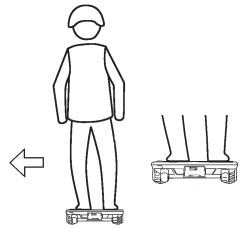
(Picture 11)



(Picture 12)



(Picture 13)



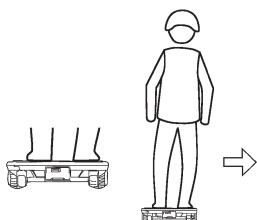
(Picture 14)

**A Standing on:** one foot first, and then another, remember to adjust your position.

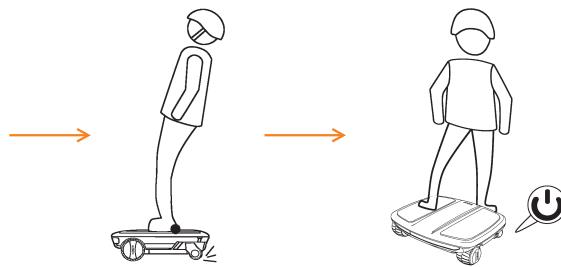
**B Moving:** when you hear the beep, that means you can begin riding.

**C Moving forward:** put your weight on the front of your feet, or lean forward.

**D Turning left:** put your weight on your left feet and lean left slightly.



(Picture 15)



(Picture 16)



(Picture 17)

**E Turning right:** put your weight on your right feet and lean right slightly.

**F Braking:** when moving forward, put your weight to your heels and it brakes.

**G Getting off:** after stopping icarbot, quickly move your feet to the ground one by one and then cut off the power supply.

#### Note:

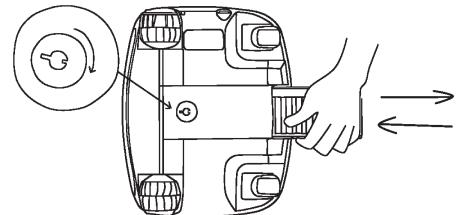
when turning, put forth your strength with one foot only, icarbot will turn a very small circle; if put strength with the other foot as well, the heavier you tread the pedal, the bigger circle it will turn.

For the beginner, make sure select the default sensitivity settings in the APP, when you are already familiar with the skills to ride after used some time, can adjust the sensitivity.

## VII. Replace the battery

Icarbot adopt removable battery design to help go outing conveniently, you can buy spare battery if need.

- Unscrew the fixed screws on the battery, then remove the battery without power, be attention to the protection cover to avoid short current.
- Remove the protection cover on the new battery, then put into battery holder, be attention the battery direction to be correctly.



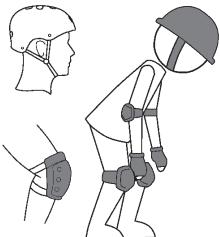
(Picture 18)

## VIII. Safety knowledge

### 8.1 General knowledge about security

- Icarbot is a sport scooter not the vehicle, do not ride the icarbot on the road, when ride it on the pavement, must be according to the instructions strictly, and try your best to protect you and other people's safety.
- To avoid scare other people on the road, respect them when ride icarbot, remind them when ride on the backside of people and slow the speed. When people are crowded which is not suitable for riding, can put the icarbot into the bag, and try to keep away from people.
- Must be obey the safety requirement strictly of the manual for rider, for any reminding usage behavior to break the manual such as belongings loss, accident, law dispute and other adverse events of interest conflict, our company will not take any responsibility.
- Do not borrow the icarbot to other people who does not operate to avoid the injury, must be responsible for other people's safety, before giving the icarbot to other people to use, adjust it to speed limit model in the APP, and see the safety video with him, ask him to wear safety protector, help him learn driving, and know the basic riding skills.
- Check the icarbot before riding each time, if found parts loose obviously, low mileage for battery, unusual case such as uncommon noise to change direction or brakes failed, stop immediately, no riding again, and call our service number: +86-755-61665631 to get the professional suggestion or maintainance service.

## 8.2 Safety use



(Picture 19)



(Picture 20)



(Picture 21)



(Picture 22)

- ⚠ Wear safety protector such as helmet, Elbow pads and knee pads before Riding

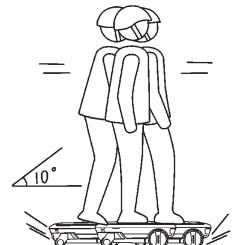
- ⚠ Do not ride on the roadway

- ⚠ Do not ride on the bump road or speed low road, keep away stone or bump road, or it cause icarbot rotate at high speed and out of control

- ⚠ No riding for children under 7 years of age



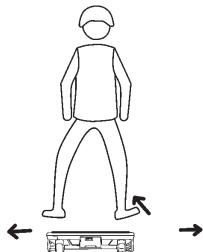
(Picture 23)



(Picture 24)



(Picture 25)



(Picture 26)

- ⚠ No riding on the raining and snow road

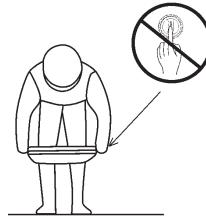
- ⚠ Do not speed up or slow down hurriedly, the body Incline Angle to control is no more than 10°

- ⚠ No riding when low battery warning

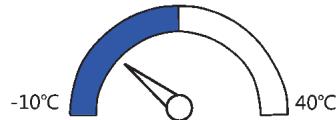
- ⚠ In case of sudden danger, people must jump from back or the left or right



(Picture 27)



(Picture 28)



(Picture 29)

⚠ When over-speed alarm, should stop speed up immediately to avoid injury

⚠ When pick up icarbot, do not turn the wheel by hand to avoid crush

⚠ Working temperature:  $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$ , battery have max mileage and performance in normal temperature, in the low temperature, battery mileage and performance will reduce half from original, you'd better not ride



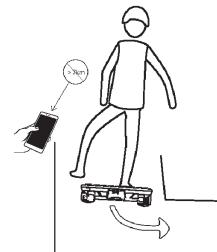
(Picture 30)



(Picture 31)

⚠ Do not clean by water directly, can wipe slightly by clear-water or alcohol and other non corrosive liquid

⚠ When turning back, you should not move the gravity to your heels rapidly, or you will fall down



(Picture 32)

⚠ Do not turn sharply on the speed more than  $7\text{km}/\text{h}$ , or it cause wrestling danger



(Picture 33)



(Picture 34)



(Picture 35)



(Picture 36)

- ⚠ Going forward, avoid lift one foot, or it cause hairpin bends to danger

- ⚠ Do not ride on the ramp—way more than 15 degree, icarbot will fall down because of less power

- ⚠ No riding with many people at the same time or no riding to hold a baby

- ⚠ No riding icarbot up and down stairs or on the escalator 3 Safety charging

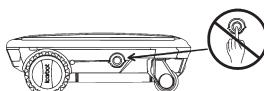
### 8.3 Safety charging



(Picture 37)

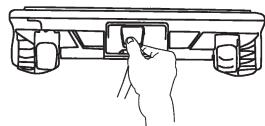


(Picture 38)

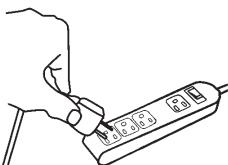


(Picture 39)

- ⚠ Connect the charger with icarbot first when charging, then connect the power



(Picture 40)



(Picture 41)

- ⚠ Do not charge for icarbot when raining

- ⚠ Do not open the switch when charging

- ⚠ In case of emergency when charging, cut off the plug of the charger

- ⚠ After full of charge, cut off the power first, then take off the connection between the charger and icarbot

#### 8.4 Security Maintenance

- When not in use, please store in a cool and dry place.
- Long time not in use, please keep one time full charge in each month, to maintain the vitality of the battery. Charging early and often as far as possible, can greatly prolong the service life of the battery, please charge the battery before the power completely exhausted.
- Can use alcohol or wet cloth to clean the scooter surface, please avoid to use a corrosive liquid cleaning, otherwise the consequence is responsible for.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
- Children shall not play with the appliance.
- Cleaning and user maintenance shall not be made by children without supervision.
- The appliance is only to be used with the power supply unit provided with the appliance.
- Non-rechargeable batteries are not to be recharged.
- Rechargeable batteries are to be removed from the appliance before being charged.
- Different types of lithium batteries or new and used batteries are not to be mixed.
- Batteries are to be inserted with the correct polarity.
- Exhausted batteries are to be removed from the appliance and safely disposed of
- If the appliance is to be stored unused for a long period, the batteries should be removed.

#### 8.5 Security Repair

- Replace Battery: you can take the battery pack or contact with F-wheel service.
- Replace the wheel: please contact with F-wheel distributor.
- Replace the parts: please contact with F-wheel distributor.

#### Special announcement:

Any damage by Emergencies or didn't according to the requirements of specification or not with quality problems. The company does not undertake related directly or jointly and severally liable.

## IX. Specification parameter

Performance index	Items	Parameter
Size	Car body ( mm )	384.5*310.8*106.3
	package ( mm )	460*375*167
Weight	Max load ( kg )	120
	NW ( kg )	5.5
Main parameter	Max speed ( km/h )	12
	Max distance ( km )	15
	Max uphill	15°
	Rate-limiting mode	APP
	Apply to the landform	Level road, uphill≤15°
	Preference temperature	-10 ~ +40°C
	Storage temperature	-20 ~ +45°C
	Waterproof rate	IP54
	Color	black/ white
Battery pack	Nominal voltage ( v )	25.9
	Maximum voltage ( v )	29.4
	Rated capacity ( wh )	114
Motor	Rated power ( w )	130 *2
Adapter	Input rating	AC100~240V; 50/60Hz 2.5A
	Rated output	29.4V 2A
	Charging time ( h )	2.5

**Remark:** Items have different data and parameter. If any change, we will advice.

## X. Common problem treatment

Problem	Possible Cause	Solution
When riding evenly, the scooter turn toward the side	Starting on the bumpy road	Restart on the flat road
Serious dithering	Two foot's in effort no-uniformity	Adjusting effort
Sensitive	Factory setting is low sensitivity	You can adjust APP when skilled

**Remark:** if you cannot solve the problems according to these method, please contact our distributor or call us: +86-755-61665631

## Notice:

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

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.

## XI. Trademarks and legal statement

F-wheel company have involved in a number of patents of icarbot balance scooter series product. This manual is made by F-wheel and owns the copyright , and any institution or individual can not be reproduced , distribute all or any part of this manual , and not allowed to use these patents without written permission of F-wheel.

This manual has been described as comprising the functions and instructions for use when printed. However, due to constantly improve the product features, design changes , etc., your purchase products may still discrepancies , please scan this manual App dimensional code to download the App for Android or IOS system and read the latest electronic version of using manual .Except F-wheel icarbot model, there are a number of different functions of the series and models. Some features mentioned in this document may not be achieved on your other F-wheel products. Due to product updates, this manual may deviate from the actual product in color, appearance, etc., please refer to the actual product.

Manufacturer: Shenzhen Counterbalance Technology Co., Ltd.

Address: Dagang industrial park B ridgepole 2 floor, Changzhen village, Gongming town, Guangming new district, Shenzhen.

Floor 9, Hongyu building, Longguan road, Longhua new district, Shenzhen, China.

## XII. Warranty policy and description

Dear users:

Thank you for choosing F-wheel Icarbot Series intelligent electric balance scooter, in order to serve you better, after purchasing the product, please fill out and save this sales unit stamped warranty card, using together with the purchase invoice as the certificate of product after-sale service .

(Please keep the product outside box for some time, in case of the product have quality problems, need to return, you can use the original product packaging sending back)

User name		Phone	
User Address			
Product Model		Product Number	
Date of Purchase		Purchase channels	
Purchase Address			
After-sale phone	+86-755-61665631	Website	www.fwheel.cc

Sales Unit:(Stamp)

## Warranty:

Consumers purchase F-wheel Icarbot Series intelligent electric balance scooter through legitimate channels, within one year from the date of purchase (motor, control panel, battery charger for 1 year warranty, battery for 6 months) once the product have quality problems, holding warranty card and a valid proof of purchase can get free service of three packs warranty .

1. Including in following any one case will not covered under warranty columns when users using it:

- Exceed three packs of validity;
- Due to natural disasters or force majeure (fire, earthquake, lightning, etc.) cause damage ;
- Since the product does not meet the requirements of environmental cause damage ;

- Failure to use the product manual requires to use, maintenance, custody, maintenance and cause damage;
- Due to unauthorized disassemble, make alterations and other human factors cause damage;
- During the transport, handling or riding cause damage by human factors;
- Unable to provide valid proof of purchase and warranty card;
- Non-product quality problems caused damage;
- As this product is used commercially, is not always guaranteed.

2. Parts prices and fees please go to F-wheel official website for detailed advice
3. Return Policy

Classification	Deadline	Type of Changing or Refunding	Detailed description	Start date
Sales Return	7days	State law functionality or product quality problems	Confirmed by F-wheel company authorized service provider detection, and issue a test report to ensure the problem belongs the quality problem of goods.	From the date of user receipt
Replacement	15days	State law functionality or product quality problems	Confirmed by F-wheel company authorized service provider detection, and issue a test report to ensure the problem belongs the quality problem of goods.	From the date of user receipt

If not within the scope of the warranty and can be serviced, the company offers a paid service, the final interpretation of the contents of this service owned by the Company.

