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**WoBoard / WoBoard S**

USER GUIDE

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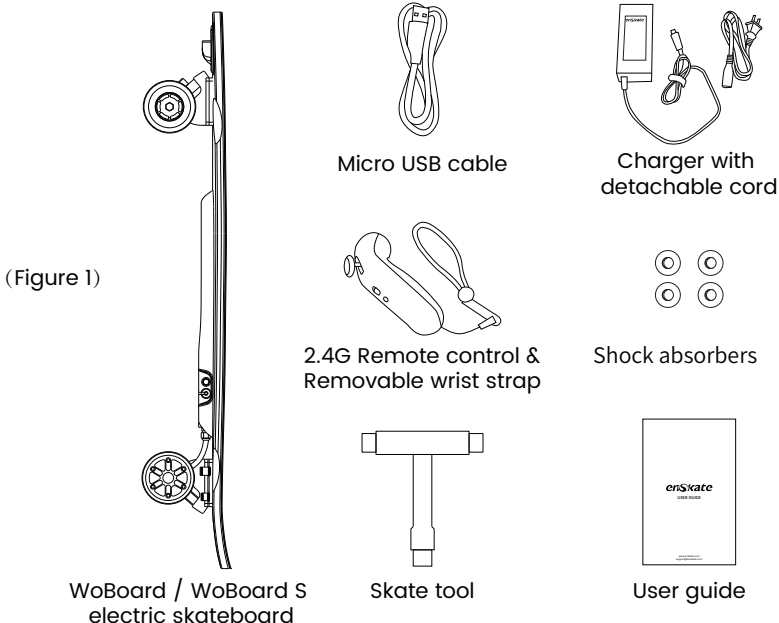
# Instruction Manual for WoBoard / WoBoard S

## I. Security warnings

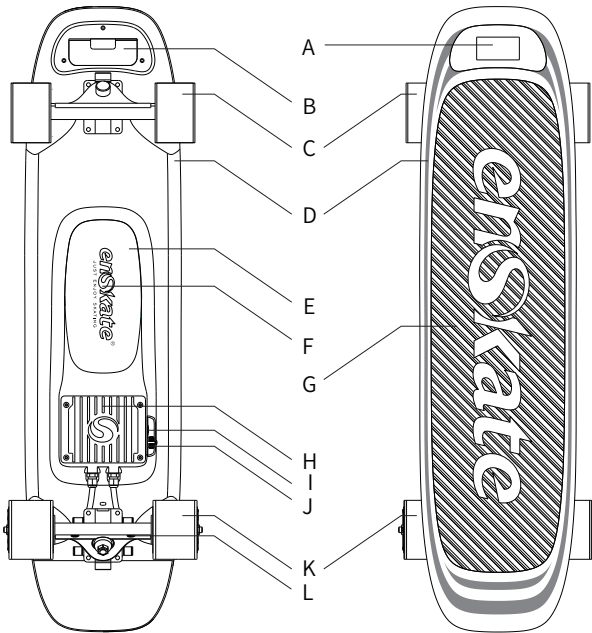
- ⚠** You should read, understand and abide by the terms and conditions of the user guide before riding skateboard.
- ⚠** Riders may risk death or serious injury from loss of control and falls. Always wear helmet and protective gear such as knee pads, elbow pads, wrist pads while riding skateboard.
- ⚠** DO NOT ride the board if you are under the age of 16 years old.
- ⚠** Avoid riding on uneven surfaces, dirt, sand, steep hills, cracks, rocks might cause a fall. Be cautious when going down hills.
- ⚠** enSkate is not liable for any damage caused by unsafe operation or faulty repair, any repairs made by unauthorized technicians will avoid the warranty.
- ⚠** When the gradient is steep (>18%), pay special attention to the brake, or stop using the skateboard downhill.

## II. Introduction of WoBoard / WoBoard S

### 2-1 What's in the box



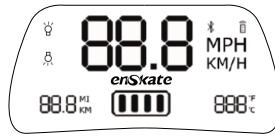
2-2 Schematic diagram and description of skateboard











(Figure 2)

Serial number	Name
A	Display screen (View figure 3)
B	Front indicator light
C	Driven wheel (Front wheel)
D	Maple wood
E	Battery
F	Carbon Fiber Sticker
G	Sandpaper
H	Control Panel
I	Power switch
J	Charging port
K	Motor
L	Tail lights

A. Description of identifiers on the display screen:



(Figure 3)

-  — Front light indicator. Turn on the front light of the skateboard, and the identifier appears;
-  — Rear warning light indicator. Turn on the rear warning light of the skateboard, and the identifier appears;
-  — Displays real-time riding speed;
-  — Bluetooth light of skateboard;
-  — Remote control pairing identifier;
-  — Riding mileage. Record riding mileage;
-  — Current battery status of the skateboard;
-  — Temperature of the main control panel of the skateboard.

2-3 Specification parameters :

Dimension specifications	880*220*140mm / 34.6*8.6*5.5in
Total weight	6.8kg / 15lbs
Plate material	Maple wood
Waterproof level	IP54
Battery duration	Wobaard 8mile / Wobaard S 12mile (65kg load)
Maximum speed	35km/h / 22mph
Climbing angle	18%
Maximum loading bearing	120kg / 265lbs
ground clearance	85-135mm
Operation	Remote control
Motor Dimension	83*56mm (Diameter)

- ※Maximum Range and hill climb depends on road condition, terrain and temperature.
- ※Above data comes from testing, deviation may exist.

**⚠ Motor**

High temperature warning: Risks of burns.

Right after long-term use, do not touch the rear axle or driving motor. The driving motor produces heat and may cause serious burns. Cool down these areas before touching.


### III. Introduction of battery

#### 3-1 Schematic diagram and description of battery

Internal battery inside the battery case as Figure 2-E.

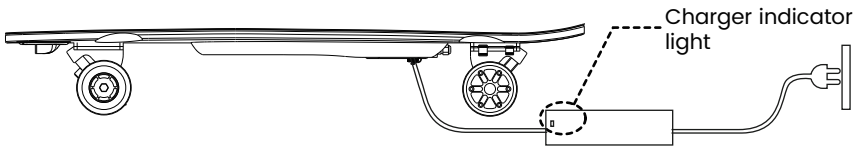
▲ Please keep it clean and dry.

#### 3-2 Power specifications and parameters:

Enclosure material	Flame retardant grade engineering plastics
Battery cell	SamSung 18650
Voltage	DC 36V
Capacity	Wobaard 2.5Ah / Wobaard S 3.5Ah
USB output	42V  2A

#### 3-3 Description of battery recharging:

Charging Method: Connect the standard charger AC with 100-240VAC socket. Insert the DC terminal into charging port at the bottom of the skateboard. Charger indicator light turns red means connection is completed, and the battery is charging, Charger indicator light turns green means charging is completed, then remove all plugs.



(Figure 4)

Recharge time: 3 hours (0%→100%)

#### ※Battery Handling & Disposal

To ensure transportation safety, the battery will stay around 50% when first received. Accordingly, you should charge the battery prior to the first use.

NO RIDING AT/BELOW FREEZING TEMPERATURE

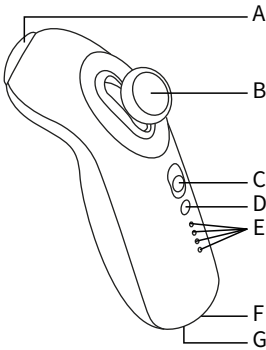
Never store or use the battery at freezing or below freezing temperature.

Make sure to turn off the skateboard after riding it, depleted battery might cause damage. Charge the battery at least once a month even if not using it.

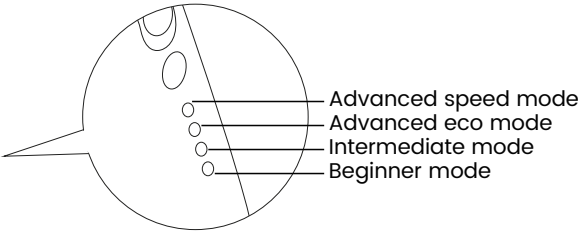
Use only the enSkate charger and caution when charging. The cord, plug, enclosure and other detail parts require periodic inspection for possible damage. The charger should be operated only by adult. Do not use charger near flammable materials. Unplug the charger and disconnect it with skateboard when charging is completed.

## IV. Introduction of remote control

### 4-1 Schematic diagram and description of remote control



(Figure 5-1)



(Figure 5-2)

#### **A.Remote control switch:**

- 1.Short press to turn on remote, hold for 3 seconds to turn off.
2. Speed mode switch: Shortly press to check speed mode status, continue for switching speed mode.

#### **B.Accelerator rocker:**

- 1.Push forward to accelerate, pull backward to decelerate and brake.
2. Short press the button to turn on and off the back and tail lights.
- 3.Press the button for 3-5s to switch the units on screen.

#### **C.Direction switch button:**

Press the button while pause status to change direction, push the remote accelerator rocker to operate.

#### **D.Connection Indicator:**

1. Indicator flickering means skateboard connected, otherwise means skateboard disconnected.
2. Red light on while going forward, green light on while going backward.
3. When the remote control battery  $\leq 5\%$ , indicator keep switching between red and green.

#### **E. Battery display:**

- 1: Lights flashing and shows the battery of the remote while remote disconnected.
- 2: Lights stop flashing and shows the battery of the skateboard after remote connected.
3. Shortly press power button to switch the speed mode (as figure 5-2).

#### **F. Type-C charging port:**

The adapter and Type-C cable are used for charging remote control.

#### **G. Remote control sling hole:**

The sling is used for carrying, and can be replaced.

**Remote pairing buttons:B+A**


Turn on remote and press the Accelerator rocker ( B), you can hear a sound then pull it backward, mean while shortly press power button (A) and release to go into bluetooth pairing mode.

**Remote pairing introduction:**

With the skateboard power on, press the power button on skateboard for 3s-5s till you hear the beep means the skateboard is in bluetooth pairing mode. Turn on remote and press the remote pairing buttons (as above) till it slowly flashes means pairing successful.

※You can only use the remote to brake but not speed up when the remote's battey is too low.

**4-2 Remote parameters:**

Rated voltage	3.7V
Rated current	20mA
Enclosure material	ABS engineering fire-retardant plastic
Battery capacity	600mAh
Charging voltage	5V  2A

**4-3 Radio interference precautions**

The connection could be unstable or lost when the remote control's battery is under 8%, and you can only use the remote to brake but not speed up. Try to avoid areas with high-power electromagnetic radiating equipment, such as radio towers, power lines and radar. In some rare cases, connection may also be lost due to unpredictable causes. As a safety precaution, please restart the remote when the connection lost. If losing connection happens more than once, stop use it immediately and contact with enSkate customer support team.

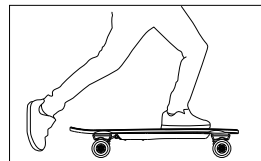
**V. Prepare for riding**

**5-1 Turn on skateboard**

You can slide the board or press the power button to turn on the skateboard.

**5-1-1 Slide to start:**

Slide the board till you hear the beep, battery indicator and power switch indicator lights up means the board was turned on.



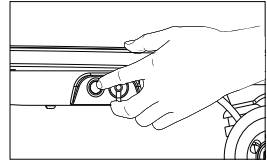
(Figure 6)

- ⚠ Sliding too slow or too soft might not able to turn on the board.
- ⚠ Power saving : Leave the board for 3 minutes and it will automatically turn off.



### 5-1-2 Power button:

Press the power button and hear the beep, battery display lights on means the board was turned on.



(Figure 7)

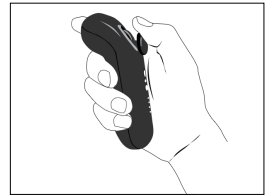
**▲** Charge the battery before using skateboard (Check 3-3).

### 5-2 Turn on remote control and start operation

5-2-1. Press the power switch of the remote control for 3-5s to turn on the remote control. Press the power button for 3-5 seconds or leave the board for 3 minutes and it will automatically turn off.

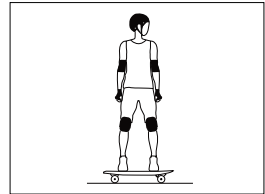
※Try repair the skateboard with remote if it's not successfully paired (Check 5-3).

5-2-2. The default speed of the skateboard is in beginner mode. Firstly, as shown in the figure, pull the remote accelerator rocker to braking position, so that the dynamic wheel is under damping braking status.



(Figure 8)

5-2-3. Prepare for riding and keep the correct riding position. As shown in the figure, according to individual customs, step on the skateboard; place both feet on the skateboard, keep knees bent and look ahead.



(Figure 9)

5-2-4. After moving into a stable standing position, push the accelerator rocker to the middle position. Push the accelerator upwards slowly until the skateboard moves slowly and keeps sliding conditions. After stabilizing, push the accelerator forwards or backwards to adapt speed levels and brake sensitivity.

- ※If you feel stiff, or the turn is not flexible, please apply the shock absorbers.
- ※The default speed of the skateboard is set up to  $\leq 8$ kmh with remote paired.  
Do not push the accelerator rocker too fast before operating killfully.
- ※Wear helmet and protective gear while riding.

### 5-3 Pairing

With the skateboard power on, press the power button for 3s-5s till hear the beep, release the button while battery light flashing, means it is in the pairing mode. Turn on the remote control, press the button for 3s-5s then you can hear the sound, means pairing successful and the logo start slowly flashing.

### 5-4 Switch direction

with the back and forward button while pause status to change direction, push the remote accelerator rocker to operate.

### 5-5 Power Off

5-5-1: Turn off skateboard: Press the power button for 6-8 seconds or leave the board for 2 minutes and it will automatically turn off.

5-5-2: Turn off remote : Press the power button for 3-5 seconds or leave the board for 3 minutes and it will automatically turn off.

#### ※Remote pairing buttons:

Press the Accelerator rocker (you can hear a sound) and pull it back, mean while shortly press power button and release to go into bluetooth pairing mode. It will slowly flash when pairing successful.

※You can only use the remote to brake but not speed up when the remote's battery is too low.

#### Remote pairing introduction:

With the skateboard power on, press the power button on skateboard for 3s-5s till you hear the beep means the skateboard is in bluetooth pairing mode. Turn on remote and press the remote pairing buttons (as above) till it slowly flashes means pairing successful.

※APP instruction please follow the Quick Guide.

## VI. Operating limits

It is important that you are familiar with the limits of skateboard, which to maximize rider's safety and reduce the risk of damaging skateboard. The skateboard will perform better when you observe these limits.

### WEIGHT LIMITS FOR RIDERS AND CARGO

enSkate sets weight limits for two reasons:

- Rider safety
- To reduce the risk of damaging skateboard

**⚠ CAUTION:** Exceeding the weight limit, especially in situations requiring more power when combined with other variables, will reduce the speed range of skateboard, or increase the risk of damaging skateboard.

Variables that require more power include:

- Higher payloads (weight of rider and all cargo)
- Steeper slopes
- Bumpy or rough surface conditions
- Excessive starting, accelerating, and stopping
- Abrupt maneuvers

### STRUCTURAL WEIGHT LIMITS (MAXIMUM PAYLOAD)

The maximum payload (rider plus all cargo) is 265lbs (120kg). Exceeding the maximum weight limit increases the risk of damaging skateboard.

Several factors affect the loads transmitted to the skateboard:

- Rider's riding skill
- Payload (weight of the rider and all cargo)
- Surface condition (obstacle height, etc.)

**NOTICE:** Exceeding the weight limits, especially when riding on uneven terrain, could damage the skateboard or reduce the performance quality.

### MAXIMIZING RANGE

Maximum range distances are provided in the Technical Specifications section. The range of your skateboard is affected by many variables, including:

- Terrain: Riding on smooth, flat terrain improves range, and riding on hilly terrain and unpaved surfaces reduces range.
- Speed and Riding Style: Riding at a consistent, moderate speed will increase range. Excessive starting, stopping, acceleration, and deceleration reduces range.
- Rider Weight and Cargo: Lighter riders with less cargo experience better range than heavier riders with more cargo.
- Temperature: Storing, charging, and riding in temperatures close to the median of the recommended temperature range improves range. Riding in colder temperatures reduces range significantly.
- Battery Condition: Correct charging method and maintaining can extend the battery's lifespan to provide longer range. Battery with poor condition will provide less range.

## VII. Troubleshooting

If your skateboard is not running properly, stop using it immediately. In most cases, turning the skateboard off for ten seconds and restarting it will solve the issue. If you find other problems, or restarting the skateboard doesn't resolve the issue, refer to the following chart for common troubleshooting methods. If the problem still exists, please stop using the skateboard and contact enSkate.

<b>Trouble</b>	<b>Probable Cause</b>	<b>Solution</b>
Not turned on	Low Battery	Charge battery for at least one hour
Not riding	1. The remote control is not connected or not turned on	Restart the remote and skateboard
	2. Skateboard/remote in sleep mode	Shut both down for ten seconds, then turn on again ten seconds later
Not charged	1. Charger not connected	Make sure you're using the correct charger and that it is properly connected to an outlet
	2. Battery depleted	If battery has not been charged for more than a month, it may require an extra hour to start normal charging
Range too low	1. Exceeded the weight limit	The skateboard can only carry up to 265lbs / 120kg
	2. Battery loss	Possibly need to replace battery
Vibration and noise	1. Loose screws	Tighten the screws
	2. Wheel/Bearing has worn down	Replace wheel/bearing
Inability of ramp/ Intermittent setback	Lack of power	Please switch for higher speed mode

## ※ Replacable tire and motor

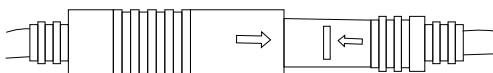
PU tires replacement instruction:

Loosen 6 screws with hexwrench then pull out the PU tire, insert the new one into the motor hub, and tighten the screws to complete the replacement.

Motor replacement instruction:

1. Turn off the skateboard, unplug the waterproof cable, remove the screws, replace by new motor and secure the screws.

2. Follow the alignment mark on the waterproof plug and insert the connector to assuring correct mating. Caution: When the connection failed or can't be fastened, make sure to realign. Forcibly connection may damage the plug. (View figure 10)



(Figure 10)

### ⚠ Driving wheels

High temperature warning: Risks of burns.

Right after long-term use, do not touch the rear axle or driving motor. The driving motor produces heat and may cause serious burns. Cool down these areas before touching.

## VIII. Other safety warnings

### ⚠ SAFETY WARNINGS

#### A. General Disclaimer

1. Riding skateboard can be a dangerous activity, certain conditions may cause the equipment failure. Like other electric transportation products, falling, losing control, collisions, including failure to obey the user manual, may cause injury even death. In order to minimize the risk, ensure you read the user manual carefully.

2. RIDE AT YOUR OWN RISK AND USE COMMON SENSE.

3. This manual contains many warnings and cautions concerning the consequences of failing to maintain, inspect or properly use your skateboard. We repeat: any accident may result in possible serious injury or death.

4. WEAR HELMET AND PROTECTIVE GEAR AT ALL TIMES.

## **B. Riding Instruction And Tips**

1. In any case, we always recommend using remote control.
2. Switch to APP control or cruise control mode only after you got familiar with skateboard.
3. Emergency brake while riding with high-speed is dangerous, you may need to rely on skating techniques like foot-braking for a gently brake.
4. You can always loose the throttle before the brake.

## **C. Age, Weight & Health**

1. Skateboard is not designed for riders under 16. Keep skateboard away from children, young teens.
2. DO NOT ride the board if you are under the influence of alcohol or drugs.
3. DO NOT exceed the weight limit of 220 lbs/100kg.

## **D. Conditions For Safe Riding**

1. Ride it defensively in safe location. Watch out for potential obstacles that could catch your wheels, force you to swerve suddenly, or lose control. Be careful to avoid pedestrians, motor vehicles, other skateboarders, scooters, bikes, children or animals that may enter your path.
2. Always wear proper protective equipment such as an approved safety helmet (with chin strap securely buckled), wrist guards, elbow pads, and knee pads. A helmet may be legally required by local law or regulations in your area. A long-sleeved shirt and long pants are recommended. Before riding, be sure to check that all wheels, trucks and the battery case are secured properly.
3. WARNING: AVOID WATER  
Skateboard is not completely water-proof. Do not ride in the rain, wet or icy weather, as the electrical and drive components could be damaged. Always ride on dry, paved surfaces.
4. NO TRICKS  
Do not attempt or do stunts or tricks on your skateboard. Skateboard is not made to withstand abuse from misuse such as jumping, curb grinding or any other types of stunts. Skateboard can break from the stress incurred by these activities. Any such misuse will void the warranty.
5. KEEP fingers, hair, and clothing away from motors, wheels and all other moving parts.

## IX. Maintenance and repair

### 9-1 Clean

- ※ For your safety and to avoid potential safety problems, do not wash the board directly with water, only use damp cloth to clean the surface.
- ※ It is strictly forbidden clean all the sliding interface by damp cloth, including battery connector, battery output interface and etc.

### 9-2 Maintenance

- ※ Termly check if the screws loose.
- ※ For storage, stored the board in a dry and ventilated environment, do not in the sun or hot and humid environment.
- ※ For long term storage, suggest to full-charge the battery every month and keep the board on 10-30 minutes.
- ※ Unplug all plugs or connectors after the battery is fully charged.

## X. Warranty Policy

enSkate warrants all products sold by enSkate to be free of defects in material and workmanship for a period of one year from the date of shipment unless otherwise specified on the product. If a product is found to be defective by enSkate, in its sole discretion, enSkate 's only responsibility will be to replace the defective parts of the product. enSkate will not be responsible for shipping costs. This applies to shipping new parts out to customers for self-repair, and for shipping parts or complete products back to enSkate for in-warranty or out-of-warranty work.

When an owner of an in-warranty board requires a fix, there are two ways to approach:

Email enSkate Support HQ ([support@enSkate.com](mailto:support@enSkate.com)) with a description of the issue and follow enSkate's online troubleshooting guides to diagnose it. With the help of these resources you will be directed to the needed parts. During the warranty period the parts will be provided at no cost. enSkate will cover shipping costs unless the item must be shipped Internationally.

If the customer is unwilling or unable to complete "at-home" fix described above, they can ship the board back into enSkate HQ. The parts will be provided at no cost but round trip shipping fees will be paid for by the customer. Maintenance work may require a fee as well.

enSkate will not be responsible for any costs, losses or damages incurred because of the loss or use of any of its products, and enSkate specifically disclaims all claims for consequential and incidental damages. This limited warranty is subject to several important restrictions:

This limited warranty only applies to products purchased directly from enSkate or from a enSkate Authorized Reseller.

This limited warranty is valid only for the original purchaser of a product, and it cannot be transferred to another person upon the sale, lease, or transfer of the product.

This limited warranty does not cover normal wear and tear. Belts, bearings, wheels, and grip tape are normal wear and tear items and are not covered under warranty.

Any customization or alterations to the board, mechanical parts, or electronics will void your warranty and likely cause the board to be completely inoperable, so alter at your own risk.

Please note that if you take your board out of the country, you will be responsible for shipping and receiving costs for any service or warranty repair.

This limited warranty does not apply to anything other than defects in the manufacturing and workmanship of the product.

If, upon its inspection, EnSkate discovers that you have modified, changed, or altered the product in any way, this limited warranty is waived.

enSkate gives 6 months' warranty to the control panel. Any amount of water has the potential to damage the board, and water damage is not covered under warranty.

enSkate gives 6 months' warranty regarding the life of the batteries used in its products. Actual battery life may vary depending on a number of factors, including the configuration and usage of a product.

Your use of our products is at your own discretion and risk. You will be solely responsible for (and enSkate disclaims) any and all loss, liability or damages resulting from your use of our products, including loss of life, personal injury, or the loss of or damage to computer, mobile device, and all other property.

enSkate does not guarantee or promise any specific level of performance or battery life associated with the use of its products or any feature of them.

ALL WARRANTIES IMPLIED BY STATE LAW, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE HEREBY LIMITED TO THE DURATION OF THE LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. WITH THE EXCEPTION OF ANY WARRANTIES IMPLIED BY STATE LAW AS HEREBY LIMITED, THE FOREGOING LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, GUARANTEES, AGREEMENTS AND SIMILAR OBLIGATIONS OF MANUFACTURER OR SELLER.

EXCEPT FOR THE WARRANTY SET FORTH ABOVE, ENSKATE MAKES NO WARRANTY WHATSOEVER WITH RESPECT TO THE BOARD, INCLUDING ANY (A) WARRANTY OF MERCHANTABILITY; OR (B) WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE.

Contact us at: [support@enskate.com](mailto:support@enskate.com)



## FCC Notice:

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.

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

## RF Exposure

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

## CONTACT US

Email: [support@enskate.com](mailto:support@enskate.com)  
Phone: +86 755 32916166

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