



Hoverboard with Seat Attachment

# Operation Manual EVERCROSS EV2

V2021.0.1



**IMPORTANT:  
KEEP FOR FUTURE REFERENCE**

\*Images used in this manual may vary slightly from the product and are for reference purposes only.



Even if you have ridden a hoverboard for years, it is important for you and every rider to read this manual before using this product.

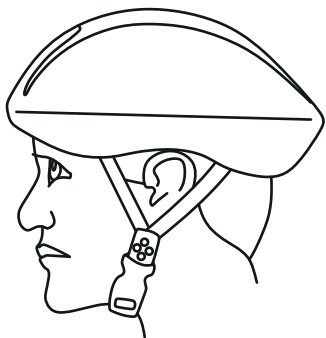


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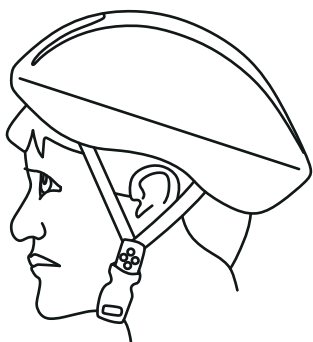
# HELMETS SAVE LIVES!

Always wear a properly fitted helmet that complies with safety standards when you ride your hoverboard.



## **CORRECT FITTING:**

Make sure your helmet covers your forehead.



## **INCORRECT FITTING:**

Forehead is exposed and vulnerable to serious injury.

## **WARNING!**

### **PLEASE READ THE USER MANUAL THOROUGHLY.**

Failure to follow the basic instructions and safety precautions listed in the user manual can lead to damage to your device, other property damage, serious bodily injury, and even death.

Thank you for purchasing the EVERCROSS EV2 Hoverboard.  
Please read all instructions carefully before using and retain this manual for future use and reference.

### **This manual applies to the EVERCROSS EV2 Hoverboard.**

- In order to avoid dangers that are caused by collisions, falls, and loss of control, please learn how to ride the EV2 safely.
- You can learn operating skills by reading the product manual and watching videos.
- This manual includes all operating instructions and precautions, and users must read it carefully and follow the instructions.
- All users are responsible for any consequences caused by violating warning contents or prompt operations.

## **ATTENTION**

1. Use only the supplied charger with this hoverboard.
2. Do not ride on icy or slippery surfaces.
3. Read the user manual and warnings before riding.
4. Store the EV2 in a dry, ventilated environment.
5. When transporting the EV2, avoid violent crashes or impact.

# OPERATING PRINCIPALS

The device uses digital electronic gyroscopes and acceleration sensors to control balance and motion, depending on the user's center of gravity. The device also uses a control system to drive the motors that are located within the wheels. The device has a built-in inertia dynamic stabilization system that can help assist with balance when moving forward and backwards, but not while turning.

**TIP** - To increase your stability, you must shift your weight in order to overcome the centrifugal force during turns, especially when entering a turn at higher speeds.

## WARNING

Any EV2 Hoverboard that does not work properly can cause you to lose control and fall. Inspect the entire device thoroughly before every ride, and do not ride it until any problems have been corrected.

## SPECIFICATIONS

Model	EV2
Net Weight	13.89 lbs (6.3 kg)
Load	44-220 lbs (20-100 kg)
Max Speed	Up to 9.32 mph (15 km/h) (For safety, the hoverboard will alarm if the speed exceeds 12 KM/H)
Max Distance Range	Up to 6.2 miles (10 km)
Max Incline Angle	15°
Minimum Turning Radius	0°
Battery Type	Lithium-ion
Battery Voltage	24 V
Battery Capacity	4.0 Ah
Wheel Size	6.5 Inches
Tire Type	Non-Pneumatic Solid Tires
IP Rating	IPX4
Bluetooth Range	Up to 33ft
Bluetooth Speaker	V2.0 with stereo sound quality

**Warm Tips:** The above datas may vary depending on riding conditions, rider weight, climate, and/or proper maintenance.

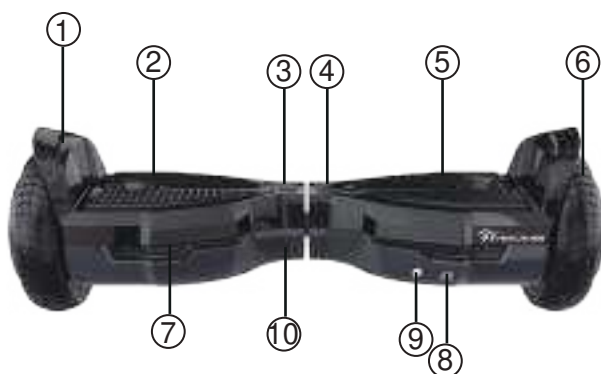
# INTRODUCTION

The EV2 hoverboard is a personal transporter. Our technology and production processes are developed with strict testing for each EV2. Riding without following the contents of this manual may lead to damage to your device, or may cause bodily injury.

This manual is designed to give you the information you need for the safe operation and maintenance of your EV2. Please read it thoroughly before riding your EV2.

## PACKAGE CONTENTS

- EVERCROSS - EV2 Hoverboard
- Charge Adapter
- Operation Manual



## FEATURES/PARTS

- |                            |                                   |
|----------------------------|-----------------------------------|
| 1. Fender                  | 6. Non-Pneumatic Solid Tires      |
| 2. Left Foot Mat           | 7. LED Light                      |
| 3. LED Status Indicator    | 8. Charge Port (Located in rear)  |
| 4. Power/Battery Indicator | 9. Power Button (Located in rear) |
| 5. Right Foot Mat          | 10. Protective Chassis Casing     |

## BEFORE RIDING

Ensure that your EVERCROSS EV2 Hoverboard are in proper working order each and every time you ride. If a part of the Hoverboard does not function correctly, please contact our Customer Support Center.

- Ensure the battery of your hoverboard is fully charged before riding it.
- Check to ensure the tires of your scooter are not worn.
- Check to ensure all connections are maintained on your hoverboard.

### **WARNING**

Any hoverboard that does not work properly can cause you to lose control and fall. Inspect the entire device thoroughly before every ride, and do not ride it until any problems have been corrected.

## EVERCROSS EV2 HOVERBOARD OPERATION

It is important that you fully understand all elements of your Hoverboard EV2. If these elements are not used correctly, you will not have full control of it. Before you ride fast, or outside of a controlled environment, learn the functions of the various mechanisms on your Hoverboard EV2.

Practice using the elements of your EVERCROSS EV2 Hoverboard at slower speeds in a flat, open area before taking it on public roads.

# RIDING YOUR EV2 HOVERBOARD

Ensure your seat attachment is fully assembled and correctly installed onto your hoverboard with all straps and screws secured in place.

Ensure your hoverboard is properly maintained as well. Failure to do so may result in serious bodily harm or death and damage to the unit. Follow the steps below to begin riding your EV2 Hoverboard.

1. Turn on your hoverboard.
2. Sit comfortably in the hoverboard seat attachment.
2. Place your feet onto the foot rests.
3. Firmly grip both handle bars and slowly push them downward simultaneously to move forward.
4. When riding, slowly pull both handle bars upwards simultaneously to brake.
5. To reverse, slowly pull both handle bars upwards simultaneously.
6. To turn right, push the right handle bar down while holding the left handle bar in neutral position.
7. To turn left, push the left handle bar down while holding the right handle bar in neutral position.

## CONTROLS AND DISPLAY

PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY

### TURNING YOUR DEVICE ON/OFF

**Power On:** Take your device out of the box and place it flat on a level surface. Press the power button once. Check the battery LED indicator. The battery indicator light should be lit, indicating the device is powered on.

**Power Off:** Press the power button once.

### MAT SENSOR

There are four sensors under the foot mats on your EV2 Hoverboard. When the user steps off the hoverboard mats, it will automatically initiate self-calibration.

When riding the hoverboard, you must ensure you are stepping on the foot mats. Do not step or stand on any other area of your hoverboard.

Do not put items on the foot mats. Doing so will make the EV2 turn on, and increase the probability of collision and cause injury to people, riders, or damage the device.

## **BATTERY INDICATOR**

The display board is located in the middle of the EV2 Hoverboard.

- Green LED light indicates the device is charged above 20 percent.
- Red LED light indicates the power is down to 10 percent or lower.

When the LED light turns red, please recharge the device.

## **STATUS INDICATOR**

When the operator triggers the foot mats, the LED Status Indicator will light up, which indicates that the EV2 Hoverboard is now ready for use.

When the system has an error during operation, the status LED light will turn red (for more details see SAFETY ALERTS).

# **CHARGING YOUR EV2 HOVERBOARD**

Your EV2 Hoverboard comes with a built-in lithium ion battery pack.

Be sure to charge the battery in a clean, dry location away from direct sunlight, flames or sparks.

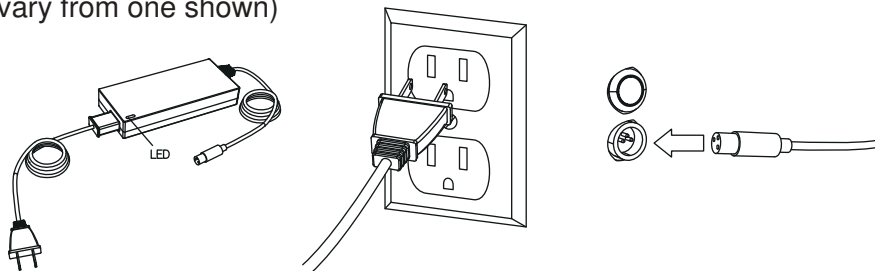
- Initial charge time: 6 hours.
- Recharge time: up to 2-4 hours.
- Please use only the original charger provided.
- Make sure that there is no dust, debris or dirt inside the port.
- Always charge the battery immediately after riding. Failure to recharge battery periodically may result in a battery that will not accept a charge.

- Run time: Up to 1-2 hours of continuous ride time. (Run time may vary depending on riding conditions, rider weight, climate, and/or proper maintenance.)
- The charger supplied with the EV2 should be regularly examined for damage to the cord, plug, enclosure and other parts. In the event of such damage, the Hoverboard must not be charged until it has been repaired or replaced.
- It has built-in overcharge protection to prevent battery from being overcharged.

Note: If the charger gets warm during regular use, this is a normal response and is no cause for concern.

## Charger

(Note: Charger design may vary from one shown)



### NOTE:

Wall outlet - Green (stand by)

Wall outlet and Hoverboard - Red (charging)

Wall outlet and Hoverboard - Green (charged)

1. Plug the charger plug into wall outlet. The light on the charger should be green.

Note: If green light (LED) does not turn on, try a different outlet.

2. Plug the charger into the charger port on the EV2 Hoverboard. The light on the charger should turn yellow during charging. The light will turn green again when charging is complete.

## Battery Power Level Indicators

- Solid Green: Battery power level is 15 to 100 percent.
- Flashing Red: Battery power level is 5 to 15 percent, recommend charging.

# BLUETOOTH SPEAKER

The EV2 Hoverboard has a powerful built-in wireless speakers so you can play your music while riding.

## PAIRING THE SPEAKER

1. Ensure your EV2 Hoverboard is turned off. If it is not, please turn it off first before pairing.
2. Turn on your EV2 and the speakers will announce that it's waiting for a Bluetooth connection. This will indicate your EV2 speaker is now in pairing mode.
3. Place the EV2 and the Bluetooth device to which you would like to pair it within the operating distance. We recommend keeping the two devices no further than 3 feet apart during pairing.
4. Ensure Bluetooth is enabled on your phone or music device. Refer to manufacturer's instructions for how to enable Bluetooth on your device.
5. Once you have activated Bluetooth on your device, select the option from the list of available Bluetooth devices.
6. Please note, pairing mode on the EV2 will last for two minutes. If no devices are paired after two minutes, the EV2 speaker will automatically return to standby mode.
7. If pairing is unsuccessful, turn off the EV2 first and repair following the aforementioned steps.

**NOTE:** Once you have paired the EV2 speaker with a device, the speaker will remember this device and will pair automatically when the device's Bluetooth is activated and in range. You can reconnect a previously paired device without going through the pairing or PIN process on up to two devices.

## LISTENING TO MUSIC

Once the EV2 Bluetooth speaker is paired to your device, you can stream music wirelessly through it. Select the track you wish to listen to on your device to listen via the speakers. All volume and track controls will be made using your music device.

# SMART PHONE APP

Your EV2 is an App-enabled hoverboard that works with most mobile devices. You must download the EVERCROSS app in order to change certain features of your hoverboard.

You could download the APP in the following two ways:

Method 1: Search for the APP named "EVERCROSS" from either the App Store or Google Play Store to download.



Method 2: Please scan the following QR code to download the app.



Warm Tips: Please note that your hoverboard must be powered on and your smart phone's Bluetooth must be enabled. And then, pairing with the selected hoverboard and use the PIN "000000".



More fun and useful EVERCROSS APP functions are waiting for you to explore and discover!

# CALIBRATE YOUR HOVERBOARD

Many problems that surfaces are due to misconfigurations on the gyro board. Most often they are off balance and in that state your hoverboard does not know if you're on a flat surface, going up/downhill or even if you are standing on it or not.

Here are some very common problems that can be fixed by recalibrating your hoverboard.

- The hoverboard is shaking when you mount it or go uphill. This happens more often if it's kids who are using the hoverboard, due to their low weight the gyros have a hard time keeping you in balance if they are not correctly configured.
- It might beep when you start it but won't let you take off.
- You have the hoverboard in perfect balance but it still wants to spin around.
- When you ride the hoverboard straight it draws to the left/right.

There are numerous more problems that can be helped with a re-calibration of your board and we highly recommend everyone that has a problem with their hoverboard to test calibrating it first, before you start looking at repair options like changing your motherboard or the altitude/gyro boards.

## Step-by-step guide to calibrating your hoverboard in 10 seconds.

- Make sure your hoverboard is standing on a flat surface and with both upper LED-indicators in level with each other.
- Press the power button and keep it depressed.
- Your hoverboards front LED-lights will flash fast 5 times before it starts blinking with a longer interval.
- Release the button and restart your hoverboard.

You're done calibrating the gyro boards and your hoverboard is now perfectly leveled. It now knows in what direction you're riding and what incline it's currently going in. The best thing about a calibration problem is that it's easy to complete and you can do it wherever you are.

# SAFETY PRECAUTIONS

The first rule in safe riding is to use common sense. A scooter is vulnerable; it cannot protect you in a crash, against impact, or loss of control the way driving a car can. It does not have bumpers or airbags as a car does. This section is a guide of safe riding practices for on and off-road operation. Make sure you are using your EV2 Hoverbaord properly.

Different localities and countries have different laws governing riding on public roads, and you should check with local officials to ensure you are complying with these laws.

EV2 Hoverboard is not liable for tickets or violations given to riders who do not follow these regulations.

- For your safety, always wear a helmet that meets safety standards. In the event of an accident, a helmet can protect you from serious injury and in some cases, even death.
- Obey all local traffic laws. Obey red and green lights, one-way streets, stop signs, pedestrian crosswalks, etc.
- Ride defensively; expect the unexpected.
- Give pedestrians the right-of-way.
- Do not ride too close to pedestrians and alert them if you intend to pass them from behind.
- Slow down at all street intersections and look to the left and right before crossing.



## WARNING

When you ride in low-visibility conditions such as fog, dusk, or night, you might be difficult to see, which could lead to a collision. In addition to keeping your headlight on, wear bright, reflective clothing when riding in poor lighting conditions.

Think about safety when you ride. You can prevent many accidents if you think about safety. Below is a helpful checklist for Compact riders.

# SAFETY ALERTS

While riding your EV2 Hoverboard, if there is a system error or improper operation performed, the device will prompt the user in a variety of ways.

You will notice the Running Indicator Light will turn RED and you will hear a beep sound alerting you to take precaution and cease operation, which may make the hoverboard stop suddenly.

The following are common occurrences where you will hear the Safety Alerts. These notices should not be ignored, but appropriate action should be taken to correct any illegal operation, failure or errors.

- Unsafe riding surfaces (uneven, too steep, unsafe, etc.)
- When you step on the device, if the platform is tilted more than 10 degrees forward or backward.
- Battery voltage is too low.
- The device is still charging.
- During operation, the platform self initiates to tilt due to excess speed.
- Overheating, or motor temperature is too high.
- The device has been rocking back and forth over 30 seconds.
- If the system enters protection mode, the alarm indicator will light up and the board will vibrate. This typically occurs when the battery is about to run out of power.
- If the platform is tilted forward or backward more than 15 degrees, device will power off and stop suddenly, possibly causing the rider to lose balance or fall off.
- If any or both tires are blocked, the device will stop after 2 seconds.
- When the battery level has depleted below protection mode, the device engine will power off and stop after 15 seconds.
- While sustaining a high discharge current during use (such as driving up a steep slope for a long period of time), the device engine will power off after 15 seconds.



## WARNING

When the EV2 turns off during a Safety Alert, all operation systems will halt. Do not continue attempting to ride the EV2 when the system initiates a stop. Turn your hoverboard off and back on to unlock it from a Safety Lock.

# SAFETY CHECKLIST

- Do not ride above your skill level. Ensure you have had enough practice with all functions and features of your EV2 Hoverboard.
- Do not ride too fast -- with increased speed comes increased risk. If you are moving at a higher speed, small bumps can turn into large impacts, leading to a higher risk of injury if an accident occurs.
- Before stepping on your hoverboard, make sure it is placed flat on level ground, the power is on, and the Running Indicator light is green. Do not step on if the Running Indicator is red.
- Do not operate the device in crowded areas. If you and your friend(s) are riding EV2 Hoverboard together, be sure to keep a safe distance between each other to prevent collisions, property damage, serious injuries or even death.
- Do not operate the device while under the influence of drugs and/or alcohol.
- Do not continuously spin in place, it will cause dizziness and increases risk of injury.
- Do not ride in or near puddles of water, mud, sand, stones, gravel, debris or near rough and rugged terrain.
- Do not ride in inclement weather: snow, rain, hail, sleet, on icy roads or in extreme heat.
- Bend your knees when riding on bumpy or uneven pavement to absorb the shock and vibration and help you keep your balance.
- If you are unsure if you can safely ride on a specific terrain, step off and carry your device. ALWAYS BE ON THE SIDE OF CAUTION.
- Do not ride your device near motor vehicles or on public roads.
- Individuals with lack of balance should not attempt to operate the device.
- Young children and the elderly should not operate the device without proper instruction and supervision.
- At higher speeds, always take into consideration longer stopping distances.
- Do not turn sharply, especially at high speeds.
- Do not exceed the maximum or minimum weight limits.
- This shall not be operated to perform racing, stunt riding, or other maneuvers, which may cause loss of control, or may cause uncontrolled operator/passenger actions or reactions.

# WARRANTY

This product comes with a 30 day limited replacement warranty for manufacturer's defects. This includes defects to the motor, gyroscopic sensor battery, etc.

## **The following conditions comprise the requirements and scope of our warranty conditions:**

- 1) The warranty does not cover over-charging, or damages due to improperly maintaining lithium-ion battery installed in unit. The warranty does not cover tires and other parts, which are considered consumables, parts that break easily such as glass or plastic or defects based on normal wear and tear.
- 2) The warranty will be performed in such a way that we shall decide whether to repair the defective parts or to replace them with working parts free of charge. EVERCROSS reserves the right to exchange the product for a replacement product of equal value if the product sent in cannot be repaired within a reasonable time or at a reasonable cost.
- 3) The warranty claim does not apply if repairs or other work is carried out by unauthorized persons or if our products are equipped with additional parts or accessories that are not approved for our product.
- 4) Warranties that have been activated do not cause the warranty period to be extended, nor do they trigger a new warranty period. The warranty period for any replacement parts installed ends with the warranty period for the entire product.
- 5) Any other further claims are excluded, especially those for replacement due to damage caused to the outside of the product, provided there is no obligatory legal liability.

**EVERCROSS can refuse any service claim made that is not covered by the warranty. Please contact [support@evercross.eu](mailto:support@evercross.eu) for pricing and availability of repairs, outside of warranty.**

