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1. Introduction

1.1. About This Manual

This User Manual is intended to help you set up and use your **INMOTION SCV**. You need to read this Manual carefully, watch the Safety Videos and make sure that you follow the safety instructions when using your **INMOTION SCV**.

It is important that you adhere to all safety **Warnings** and **Cautions** that appear throughout this User Manual.

This User Manual is suitable for all INMOTION products. Certain functions are limited to specific models.

If you have questions or the information you require is beyond this User Manual, please contact any authorized INMOTION SCV distributor or dealer in your area.

1.2. The Risk of Injury

The INMOTION SCV is a self-balancing Sensor Controlled Vehicle (SCV). Balancing technology cannot prevent injury if you do not ride the INMOTION SCV safely.

WARNING!

- Whenever you ride the INMOTION SCV, you risk injury from loss of control, collisions, and falls. To reduce risk of injury, you must read and follow all instructions in this User Manual and watch the Safety Videos.

1.3. Before You Begin

Before you begin, it may be necessary to assemble your INMOTION SCV. The Battery Pack should be charged for at least 4




hours before the first use. To assemble the INMOTION SCV and charge the Battery Pack for the first time, please refer to Sections **2.5 Assembling the INMOTION SCV** and **4.3 Charging the INMOTION SCV** in this Manual.

1.4. Related User Materials

INMOTION provides pdf version of the User Manual, Safety Videos, APP and help documents for your convenience. You can download these electronic files as well as the INMOTIONS SCV Smartphone App from www.imscv.com.

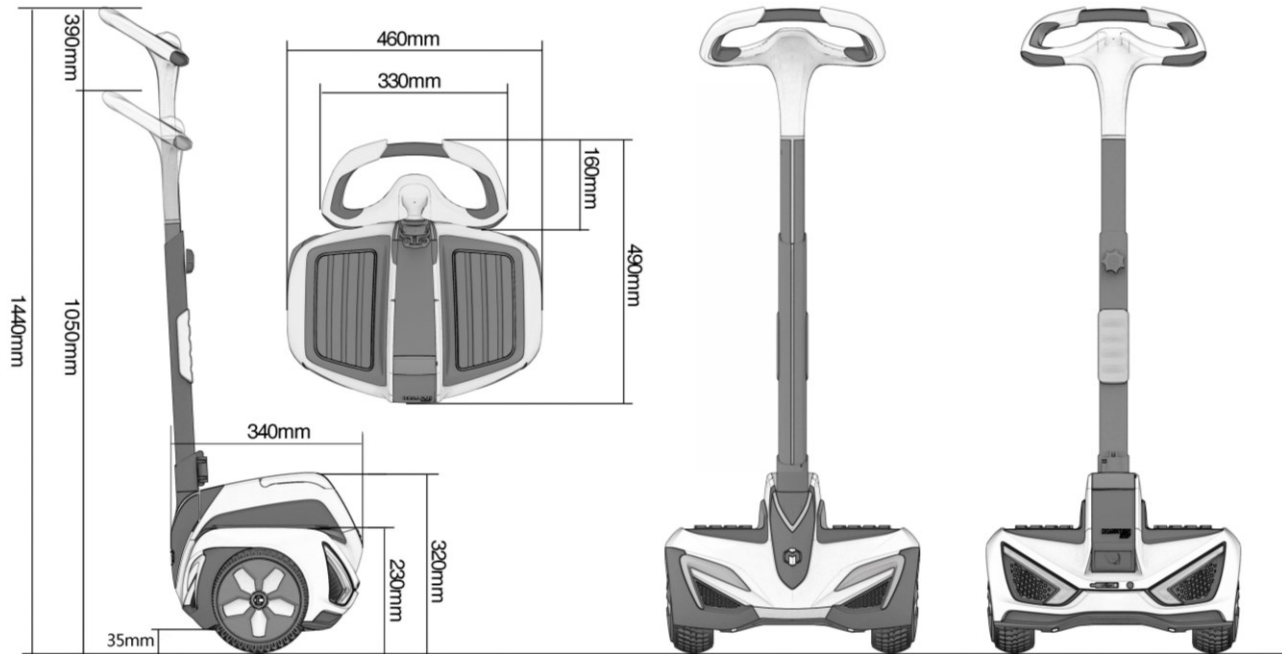
1.5. Conventions

The following conventions are used throughout this manual, please pay attention to “warning” “caution” and “note”:

 WARNING!	Warns you about actions that may result in personal injury.
 CAUTION!	Cautions you about actions that may result in operational issues or physical damage to the INMOTION SCV.
 NOTE:	Identifies important points, helpful hints, special circumstances, or alternative methods.

2. General Information

2.1. Product Dimensions



2.2. INMOTION SCV Serial Number

The serial number is unique to your INMOTION SCV. Please write it down and keep it safe. The serial number is a 16-digit number printed along with the barcode on your INMOTION SCV.

The serial number is required for after-sales service, warranty, insurance, or confirmation of loss claims.

Locations of the INMOTION SCV Serial Number:

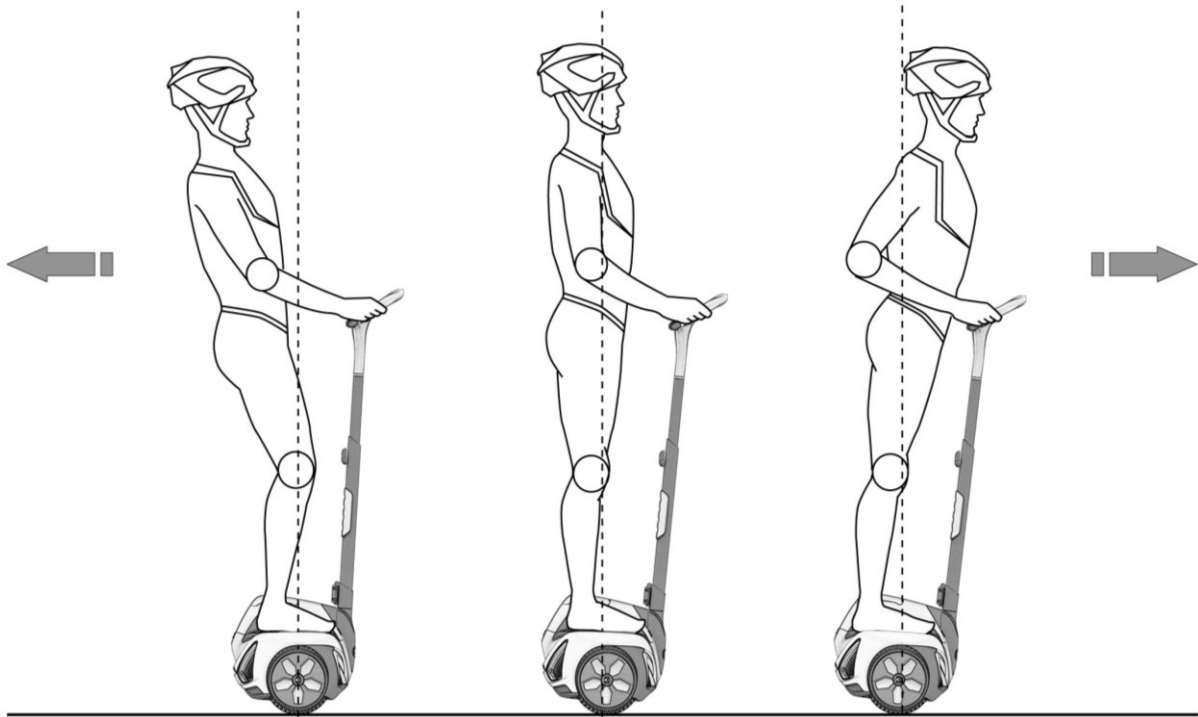
- Outside the box packaging
- On the Warranty Car
- Battery Slot—remove the Battery Pack to reveal the serial number located inside the Battery Slot

2.3. How the INMOTION SCV Works

The INMOTION SCV works like the human body. When walking, if you lean forward, you take a step forward to keep your balance. If you lean back, you step back. On an INMOTION SCV when you lean forward or backward the machine powers the wheels in the direction that you lean.

The INMOTION SCV uses dynamic stabilization technology and applies a gyroscope, sensors, and a Permanent Magnet Synchronous Motor (PMSM) to maintain its balance and move forward or backward.

When you pivot the Turning Shaft to the left, the INMOTION SCV turns left. When you pivot the Turning Shaft to the right, the INMOTION SCV turns right. To turn the INMOTION SCV, point the Turning Shaft in the direction you want to go, keeping the Handlebar in line with your body. When the Turning Shaft is centered, the INMOTION SCV travels straight ahead.



2.3.1. Parameter

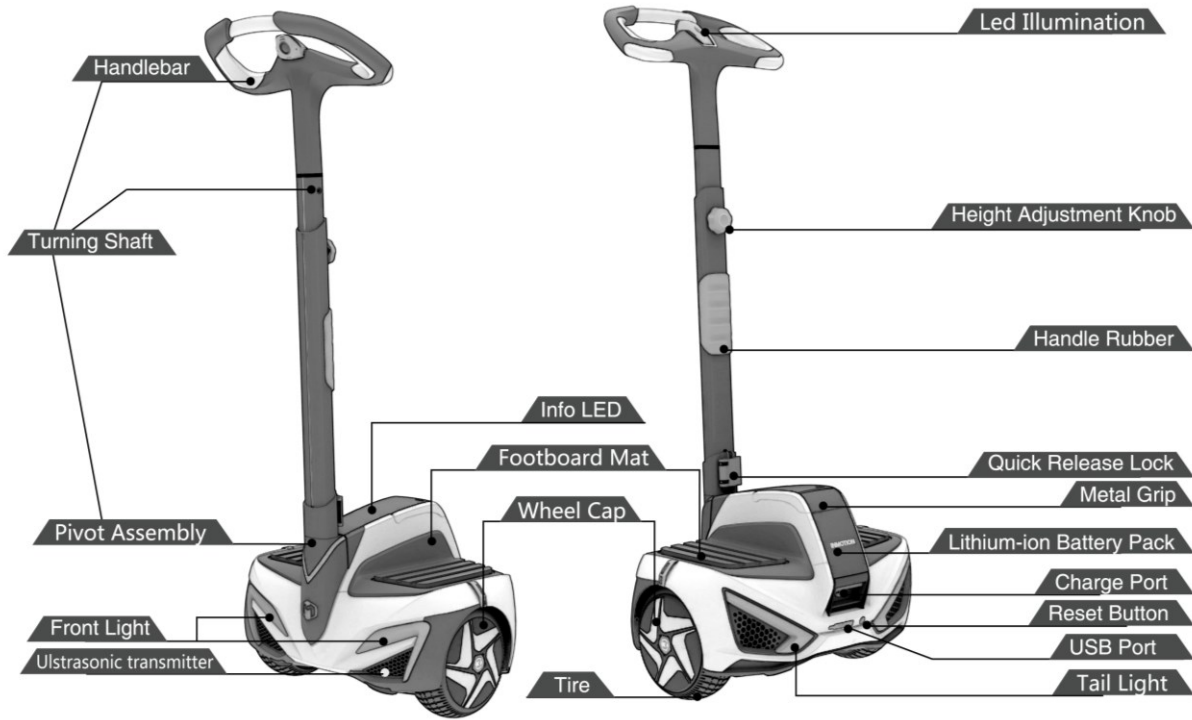
Item	Value	Note
Model	INMOTION R2	<p>①Max Speed can be adjusted through the application. You may get a higher instant speed but will stabilize at the set speed.</p> <p>②Distance per charge was calculated under the following test conditions: 25 °C, 70 Kg (77 °F, 155 lbs.) payload and smooth terrain. The cruising distance varies under different riding conditions. Different SCV and battery models will cause a difference in cruising distance.</p> <p>③Vehicle Dimensions is the Maximum Size for unfold Handlebar</p>
Max. Speed	15 Km/h (9 mph)①	
Distance per charge	30 Km②	
Max Climbing Angle	15°	
Machine Weight	17.5Kg	
Load	25~ 100 Kg	
Turning Radius	0 m	
Dimensions (W*D*H)	460*490*1440 mm③	
Battery	72 V 6 Ah Lithium Ion(Li-ion)	
Power Requirements	AC 110 ~ 240 V 50 ~ 60 Hz	
Full Charge Time	About 5.5 Hours	
Tire Type	Vacuum Tires	
Best Operating Temperature	15 ~ 30 °C	



NOTE:

- For additional information about Maximum Payload (Rider plus all cargo), refer to later chapters.
- For additional information about how to increase riding distance per charge, refer to later chapters

2.4. INMOTION SCV Main Components



2.5. Assembling the INMOTION SCV

2.5.1. Unpacking the box

Any missing or visibly damaged parts should be reported to your dealer immediately.

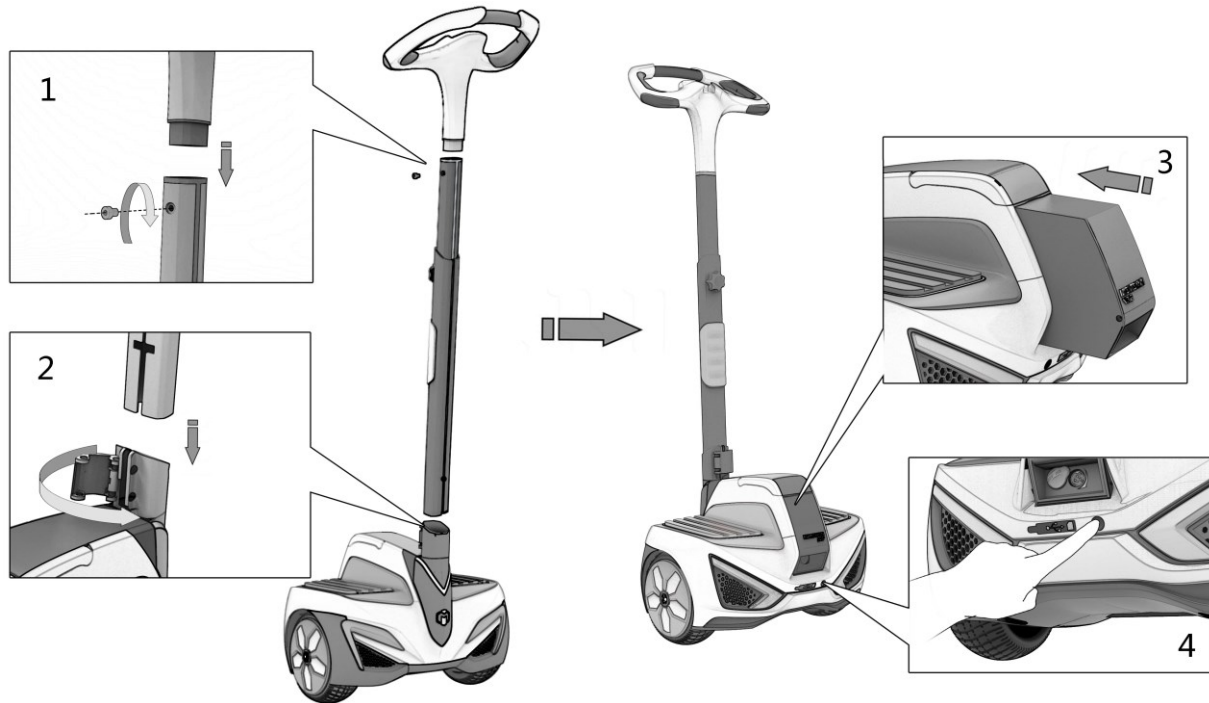
1. INMOTION SCV main body	5. Installation Tool and a spare Screw
2. Handlebar	6. Packing box for Self-positioning follower (containing Self-positioning follower and a Micro USB cable)
3. Turning Shaft and Screw	
4. Charger Adapter	
7. User Manual ,Certificate of Compliance ,Warranty Certificate ,INMOTION SCV Maintenance Tips and Safety Instruction for Battery Pack	



WARNING!

- All INMOTION SCV parts must be approved by INMOTION, and properly installed.
- Please do not intend to stand on an INMOTION SCV without the Turning Shaft properly attached.
- Using your INMOTION SCV without all parts properly installed or use unauthorised parts could damage your INMOTION SCV and result in serious injury from loss of control, collisions, and falls.
- Do not modify the INMOTION SCV. Modifications to the INMOTION SCV without the prior written approval of INMOTION could interfere with the operation of the INMOTION SCV, and result in serious injury or damage.

2.5.2. Assembling the INMOTION SCV



Assembling the INMOTION SCV:

1. Insert the Handlebar into the top of the Turning Shaft (the slimmer part), and tighten the Screw using the Installation Tool. The extra Screw and Installation Tool are included in the box. Please pay attention to the front and back of the Handlebar.

2. Unlock the Quick Release Lock, insert the Turning Shaft into the Pivot Base Assembly until you feel resistance, and lock the Quick Release Lock. Please note, if the Turning Shaft is not completely inserted, the Quick Release Lock cannot be locked properly. Assembly of the Turning Shaft is now complete. When necessary, remove the Turning Shaft from the SCV by unlocking the Quick Release Lock.

3. Remove the Battery Pack from the battery package, lean the INMOTION SCV body forward, and hold it steady. Push the Battery Pack into the Battery Slot. When you hear a "Da" sound, gently try to pull the Battery Pack out. The Battery Pack is installed properly if it cannot be removed without releasing the latch (If battery has already installed on the SCV, please skip this process).

4. Press the Reset Button on the back of the SCV, then front light and tail light simultaneously lights on for a second, then lights off. This means that the SCV has been activated. Hold the SCV parallel to the ground, after a sound, you can turn on the car , Now hold INMOTION SCV at upright position with the Footboard parallel to the ground, and press the power on button.

NOTE:

- If necessary, especially when you need to put the INMOTION SCV inside small spaces, such as backtrunk of your car, the Turning Shaft and the Handlebar can be quickly removed by unlocking the Quick Release Lock. Please choose the storage and transportation for INMOTION SCV base on actual situation flexibly .

WARNING!

- Please confirm the Turning Shaft is installed properly. Try lifting the Turning Shaft with both hands to check if it is loose. If it is loose, tighten the Screw.
- If you need to remove the Turning Shaft, hold it tightly with one hand, unlock the Quick Release Lock, slightly shake it and then pull it out.

2.6. Control Shortcuts

The control shortcut functions refer to the easy movements to turn on/off, and mode switch etc.. The control shortcuts include:

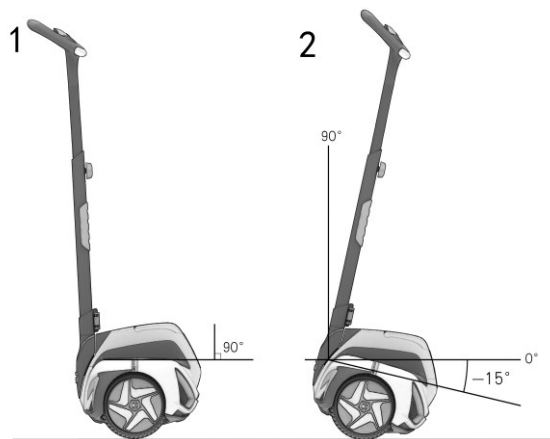
Power on: Lay the SCV horizontally, namely keep the Footboard parallel with the horizontal inclination and INMOTION SCV will be activated automatically. (Shown in Picture 1);

Power off: When stepping off the Footboard, naturally lean INMOTION SCV backward and keep that status for more than 3 seconds, INMOTION SCV will power off automatically. If the statue has been kept less than 3 s, INMOTION SCV will stay power on (shown in Picture 2);

Auxiliary Mode: When INMOTION SCV is on, turn left or right to the full lock, SCV will enter Auxiliary Mode automatically;

Cancel Auxiliary Mode: When you step on Footboard by one foot, Auxiliary Mode will be off.

- In Auxiliary Mode, as long as both of your feet are on the Footboard, it will stay in Auxiliary Mode till you step off;
- When INMOTION SCV is turned on by remote control or APP and not turned off by auto-off shortcut, it can only



be turned off by remote control and APP

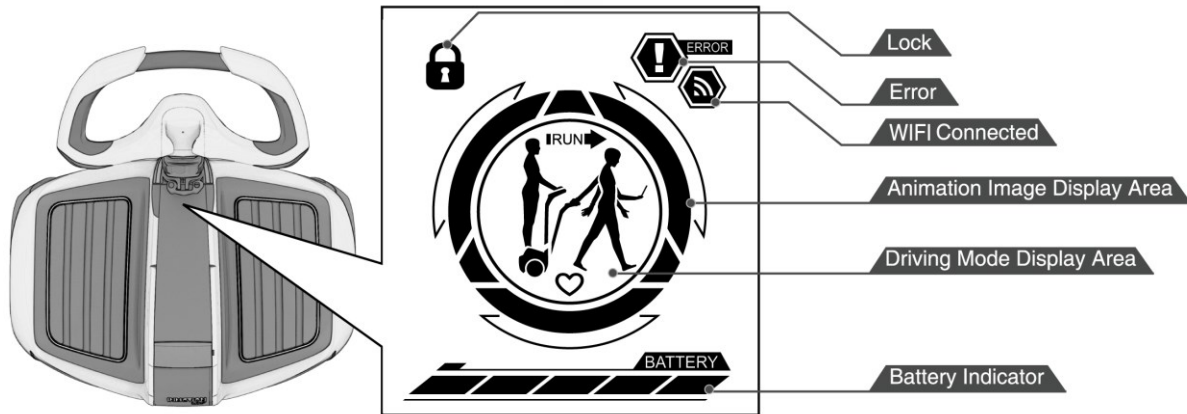
- In power off mode, when you turn the Handlebar to the utmost left and hold it for 3 s, safety alerts will be set off;
- In power off mode, when you turn the Handlebar to the utmost right and hold it for 3 s, safety alerts will be turned off;
- INMOTION SCV is turned on by remote control or mobile app, it can only be turned off in the same way;
- Users can turn on and off control shortcut by the mobile app.

2.7. Info LED and Sound Prompt








2.7.1 Info LED


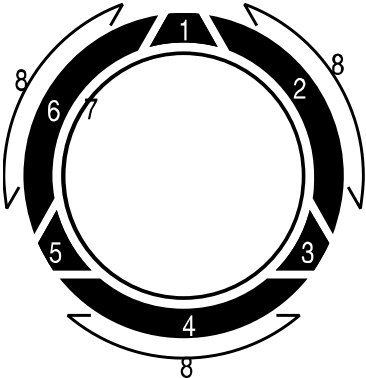
The Info LED display screen shows the running states of the INMOTION SCV.

Here below shows the Wi-Fi version.



Icons and Descriptions:

Icon	Description	Icon	Description
	Manned Speed Mode icon:		Auxiliary Mode icon:
	Short handlebar manned mode power on		Remote Control Mode icon:
	Error icon: Indicates an INMOTION SCV system failure.		Lock Mode
	Bluetooth icons <ul style="list-style-type: none"> • Red indicates that Wi-Fi is unable to be connected. • Blue indicates that the SCV has connected to Wi-Fi. • Off indicates that Wi-Fi is functioning well but is not connected. 		

	<p>Battery 5 bars</p> <ul style="list-style-type: none"> • More than 3 bars: Green • 2 bars and 3 bars: Yellow • 0 bar and 1 bar: Red, the gauge flashes to warn low battery
	<p>Panel icon:</p> <ul style="list-style-type: none"> • Bar 1, 3 and 5 glittering blue when the INMOTION SCV is in Standby Mode. • Under Balance Mode, Auxiliary Mode or Remote Control Mode, the circle will rotate following the sequence (6,1)→(2,3)→(4,5)→(6,1), the faster you ride, the faster the circle rotates, vice versa. • Bar 1, 3 and 5 glitter in red when the INMOTION SCV encounters a problem.

2.7.2 Sound Prompt

The implanted speaker on the INMOTION SCV will make different sounds to indicate running status and working mode. The Sound Prompt is on by default. You can turn off the tone or customize the sounds using the INMOTION Smartphone App. To maximize the degree of freedom for controlling INMOTION SCV, you can self-define your smart phone app according to different status and situation. See Section **Smart phone App**, for more information.

2.8. Working Mode

2.7.3 Introduction

INMOTION SCV has more than 10 working modes, here we list out important modes.

Working Mode	Description
Standby	The INMOTION SCV is in Standby Mode by default. Most of the other modes will be started from Standby Mode.
Balance	INMOTION SCV has detected a rider and the footboard angle is moderate. Training Mode and Speed Mode can be activated from Balance Mode. Read following sections for more information.
Auto Balance	When a rider steps onto the INMOTION SCV and the footboard angle is moderate (between 2° and 15°), the system will start to level the footboard. In the meantime, the INMOTION SCV may travel a short distance either backward or forward in order to balance itself. An excessive or too small angle will trigger an error warning.
Excessive Angle	When a rider steps onto the INMOTION SCV and the footboard angle is too big, the INMOTION SCV will vibrate to warn the rider to slowly level the footboard.
Self-check	The INMOTION SCV will examine and calibrate itself in Self-check Mode. INMOTION SCV can enter Self-check mode by mobile app. Read Section 3.6 for more information.
Error	If the INMOTION SCV detects an error or a system fault during normal riding conditions it will automatically reduce the speed and slowly stop. The Tires will be locked if it needs extra assistance to solve the problem. Once the Tires are locked, please contact your local distributor for maintenance service.

Auxiliary Mode	Under Assist Mode, the INMOTION SCV will provide a small amount of power to allow the SCV to be easily dragged. You can choose different reference points when entering Assist Mode. For more information about Assist Mode, please refer to Section 3.4 Assist Mode.
Remote Control	Remote Control Mode can be started from your Smartphone App. The INMOTION SCV can receive and execute simple orders under Remote Control Mode. Please read Section 3.5 for more information.
Sleep	In Sleep Mode, Operation System is under the status of waiting for starting up. Part of modules of this SCV has been powered out to lower energy cost. After 18-hour sleeping mode, all power will be cut off entering de-energized mode. Press the Reset button on the back of the INMOTION SCV to turn the power on.

2.9. Lights

2.9.1. The Head/Tail Lights

The Head Light of the INMOTION SCV is a pair of blue LED lights, and the Tail Light is a pair of red LED lights. They glittering different modes according to your operations, such as power on/off, brake, turn, and error alert. By operating mobile APP, users can control head/tail lights. The following chart shows different modes of the Front and Tail Light:

Operation	Description
Power On	The Head Light and the Tail Light illuminate for 1 second
Switch On	The Head Light and the Tail Light flash
Standby	The Head Light and the Tail Light flash for 0.5 second every 3 seconds
Error	The Head Light and the Tail Light illuminate at the frequency of 1 Hz
Balancing	The Tail Light illuminates at half brightness
Slowing down	The Tail Light illuminates for 1 second, and then illuminates at half brightness
Turning	The Tail Light of the turning direction illuminates, and the Headlight flashes from both sides to the middle.

2.9.2. Led Lights

LED lights are specially designed for riding in the night and in dark environment. When at use, the LED light should be fixed to the handlebar. It can also be taken off and used independently at certain circumstances. When taken off, please press the back of the LED light and pull it off. There are several modes of lighting at your disposal: strong light, mild light, and flash. Please use the button to switch.

Parameter	Value	Parameter	Value
Light intensity	110lm	Waterproof grade	IP55
Color temperature	5700~6300k , close to daylight	Charging time	3hours
Continuous illumination time	2hours	Life expectancy of lighting bulb	100 , 000 hours

2.10. Pedal Sensor

INMOTION SCV is equipped with pedal sensors to detect whether a person riding on a pedal. In principle pedal sensor is similar to scales, which can distinguish one leg, feet, and whether the load. The introduction of pedal sensor can help INMOTION SCV better identify driver status, help systems handle various training modes.

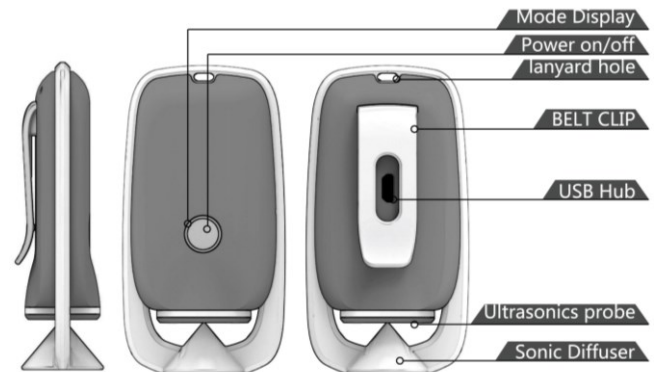
At the same time, the introduction of pedal sensor, bringing a new function, which can get driver's weight, the weight will be displayed on the mobile APP, allowing you to observe changes in weight. Pedal sensor measurement error is about 1Kg.

2.10.1. Self-positioning follower

2.10.2. Self-positioning follower Function Description

Self-positioning follower can be looked as a self-follow ultrasonic module, "map out" a position by ultrasound. After ultrasonic module and R2 balanced car paired connected, the user can wear the self-follower, and R2 will recognize its position and follow the path.

Self-follower is demonstrated as the right.



2.10.3. Self-positioning follower user instructions

- **Use:** Self-positioning follower does not have the obstacle avoidance function, acoustic wave propagates in the air, if the surrounding environment is too complex, and that will reduce the sensitivity, so self-positioning follower is more suitable for use in a more open space.
- **Life time:** the sustainable use of 10 hours.
- **Instructions:** Make self-positioning follower probe point down to vehicles, do not blocking the ultrasonic probe at R2 boot, press self-positioning follower switch button to turn on the ultrasound module, R2 will start automatically follow mode In this case self-positioning follower lights glitter once for every 1 second expressing in normal operation. During use, click the button that closed self-positioning follower, R2 will exit the following mode.
- **Charge Description:** Using USB charging cable for charging SCV, Red indicates the charging status, blue status indicates that charging is complete. If the display after power-on glitter once every two seconds, which indicates the battery is low self-positioning follower needs to be recharged.

2.10.4. Attention

Self-positioning follower is designed based on the principle of ultrasonic distance measurement, which means there are also some limitations. Please pay attention to the following matters:

- During use, please do not block the self-positioning follower launch probe. Blocking probe will result in SCV finding wrong signal source, furthermore misbehave.
- Because of self-follower special structure, keep the probe of ultrasonic transmitter upside down during the normal usage.
- When using a self-follow function, due to security considerations, the automatic function has a speed limit for R2,

R2 will not travel too fast, so users should be careful, not to use walk too fast, in order to avoid the signal loss of self-positioning follower.

- This feature is only for entertainment, R2 following function does not have the obstacle-avoidance features, users are recommended to use that in the open space, otherwise it may lead to a collision.

2.11. Communication and Charging Port

Connect your smartphone with the INMOTION SCV by using the INMOTION App, (App is not considered part of the INMOTION SCV product.)

2.12. USB Charging Port

The USB Charging Port is located on the back of the INMOTION SCV body. The Port can be used to charge your mobile devices (including phones, tablets etc.,) as well as the Smart Key. Output voltage of the USB Charging Port is 5 volts and the electrical current is 300 mA.

2.13. Smartphone App*

INMOTION App is a specific app for INMOTION users designed by Inmotion



to control, socialize, upload articles on experience of INMOTION, participate in INMOTION activities, and purchase INMOTION parts. Download the INMOTION App from our website, Apple App Store for iOS devices, or Google Play for Android devices.(The INMOTION App may not be officially available when you purchase the product, it will come to you region soon).

Use the App to:

- Show the operational state of the INMOTION SCV, and information including speed, mileage, and battery life
- Set the parameters of INMOTION SCV. Use the app to set the language, volume, maximum speed, and zero degree deviation of the INMOTION.
- Tailor-made Mentioning Sound
- Set vehicle parameters including Wi-Fi and Speed limit
- Record the movements. Use the app to record and replay the motions of INMOTION SCV.
- Free drawing. To draw the routes for INMOTION on your smartphone.
- Error detection. To evaluate and detect the working status of your INMOTION SCV.
- Digital fence. By using the GPS, users can set up a certain geological scope for the INMOTION SCV to protect its safety.
- Retrieving your INMOTION. By using the GPS, it is easy to retrieve your INMOTION SCV in the occasion of loss.
- Query the Event Log
- Upgrade the INMOTION SCV firmware
- Customize Voice Prompts for the INMOTION SCV
- Receive and execute simple orders by remote control
- Request maintenance service and receive immediate response to your request*

- Read help documents on your App for more information on what the App can do*

3. Riding Your INMOTION SCV

3.1. Riding Guidelines

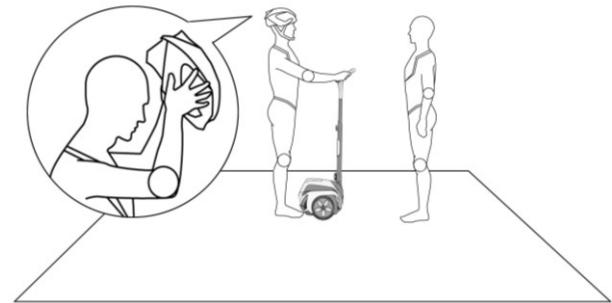
The INMOTION SCV is a high-tech sensor controlled vehicle. If you try to ride the INMOTION SCV without familiarizing yourself with the riding guidelines, you could cause damage to the device, or seriously injure yourself. This section describes how to ride the INMOTION SCV properly. It discusses riding for the first time and helpful hints for all riders.

3.1.1. Safety Cautions Prepare for Riding

The following steps will help you to learn to ride your INMOTION SCV. It is important that you practice riding in a controlled, familiar environment until you are comfortable using your INMOTION SCV and SmartKey. Before riding, make sure your INMOTION SCV is properly assembled and fully charged. Inspect your INMOTION SCV before each use. Do not ride if any part is loose or damaged. Do not wear loose clothing or jewelry that could get caught in the INMOTION SCV.

To prepare for your first ride:

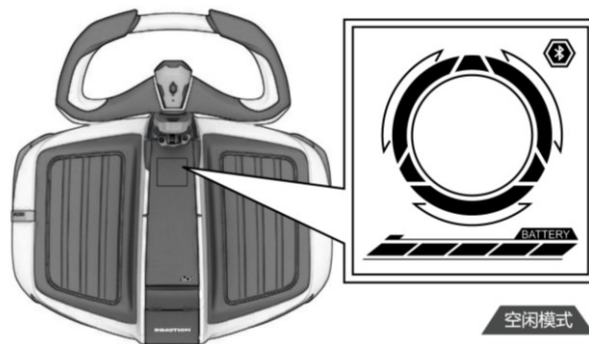
- Select an appropriate area for your first ride. The area may be indoors or outdoors and should measure at least 4 meters by 4 meters (12 feet by 12 feet). It must have a level, smooth riding surface with good traction, and the area should be free of obstructions and far from vehicles, bicycles, pets, small children, and other distractions.



- Do not select a slippery area for your first ride.
- Get a helper who is familiar with the INMOTION SCV and who has studied all the instructions and warnings in this manual.
- Wear a helmet.
- Move the INMOTION SCV to the center of the riding area.
- Adjust the Handlebar to suit your height.

3.1.2. Turn On the INMOTION SCV

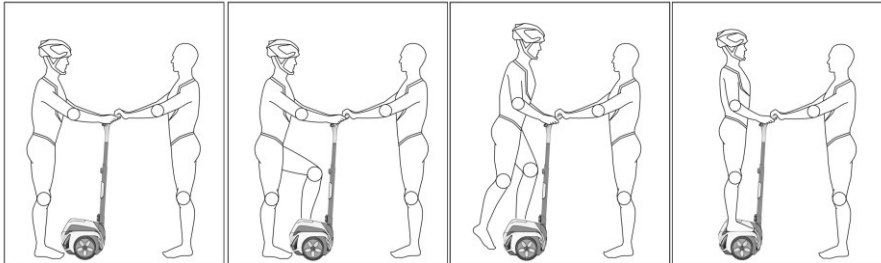
- You will hear a Voice Prompt from the INMOTION SCV that indicates the INMOTION SCV is in Training Mode (please make sure the INMOTION SCV is in Training Mode for your first ride), and an icon will appear on the LED Screen to indicate that the power is ON and the INMOTION SCV is in Standby Mode.
- Do not step onto the INMOTION SCV yet! Your INMOTION SCV is powered on, but it is not balancing.
- INMOTION SCV adopts a special power-on shortcut. When you upright INMOTION SCV, it will be turned on automatically (for the first time or when turning on from deep sleep mode, you need to press the power-on button at the back of the INMOTION SCV body).
- When turned on, INMOTION SCV enters standby mode, you will hear the welcome, and the status information of INMOTION SCV will be shown on the digital display which indicates that INMOTION SCV is in standby mode.



- Please don't step on INMOTION SCV immediately as it has not entered the balance mode.

3.1.3. Stepping On

- Before you attempt to step on for the first time, have your helper stand facing you in front of the INMOTION SCV, holding the Handlebar securely with both hands. Your helper should be prepared to firmly hold the INMOTION SCV to keep it from moving. Make sure the Footboard Mat is level.
- Hold the Handlebar with both hands, and as you step up, look straight ahead and not down.
- Put one foot on the Footboard Mat.
- Slowly transfer your weight to the foot on the Footboard Mat.
- Once you hear a Voice Prompt from the INMOTION SCV, raise your back foot off the ground and slowly place it on the Footboard Mat while avoiding moving the Handlebar. Stay calm and relaxed. Look forward. Some people rock back and forth involuntarily when they first step on. The helper should hold the Handlebar firmly.



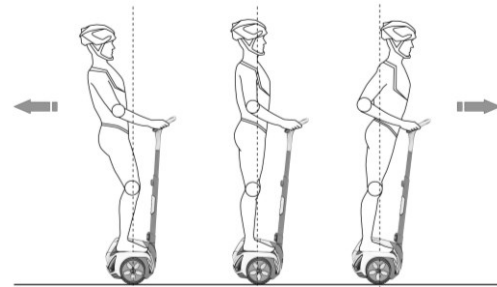
- If you feel unstable, step off the INMOTION SCV one foot at a time, and pause before stepping back on. The helper should continue holding firmly the entire time, and be prepared to keep the INMOTION SCV from moving as you step on or off.
- If you are standing on the INMOTION SCV now, please keep the Footboard Mat horizontal and stand still. Do not

move before you are familiar with it.

3.1.4. Moving Forward and Backward

The INMOTION SCV moves forward and backward in response to changes in your position. When standing on the Footboard Mat, to move forward or backward:

- With your helper available to assist you, slowly lean forward and feel the INMOTION SCV move forward. Then stop leaning forward and feel it slow down and stop. Do this a few times.
- Avoid rocking back and forth or shifting your weight abruptly, as this could result in a loss of traction and cause a fall.
- Look behind you and then slowly lean back and feel the INMOTION SCV move backward. Then stop leaning back and feel it slow down and stop. Do this a few times.



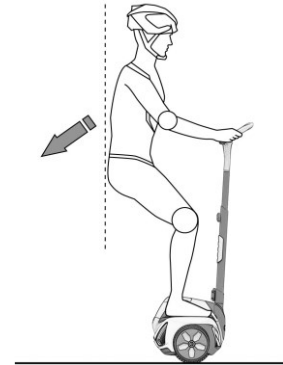
WARNING!

- You should not ride backward as part of your normal riding process. Because of the lack of a rear view and direction changes of the turning centrifugal force, riding backward could cause unpredictable falls. Instead, turn and ride forward.
- With your helper standing close by, practice going forward and backward a short distance in each direction. Be careful not to run the Wheels into any objects or go too fast. This could cause you to fall.

3.1.5. Stopping

Stop the INMOTION SCV by shifting your weight away from the direction you are moving. To stop the INMOTION SCV:

- When you are moving forward, gently shift your hips back (as if you are preparing to sit down) to bring the INMOTION SCV to a stop.
- Once stopped, center your weight over the Footboard Mat to remain stationary. If you continue to lean back, you will move backward.
- Practice choosing a spot on the ground, and coming to a smooth controlled stop at that spot. Then remain stationary.
- Avoid abrupt stops and slippery surfaces. Stopping abruptly, especially on slippery surfaces, can cause the INMOTION SCV's tires to lose traction, and you could fall.



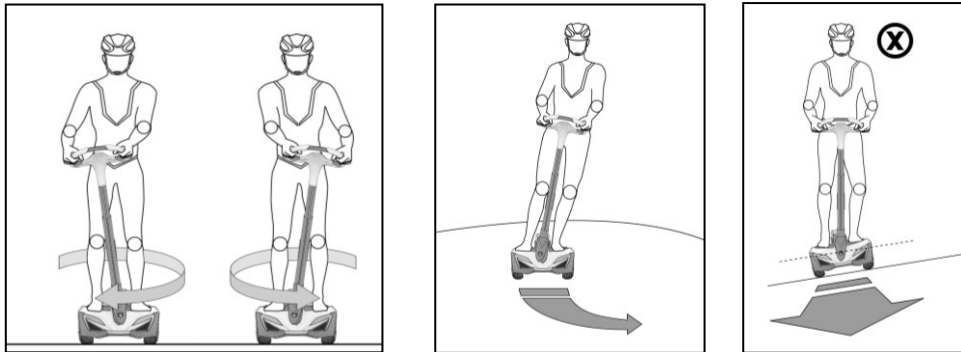
WARNING!

- Please avoid abrupt stops. Always perform a controlled stop by gently shifting your weight away from the direction of movement.
- Avoid slippery surfaces. The INMOTION SCV's Tires could lose traction causing you to fall.

3.1.6. Turning the INMOTION SCV

The INMOTION SCV turns in the direction that you lean the Handlebar. You turn the INMOTION SCV by leaning the Handlebar left or right.

- First, practice turning in place. To turn in place, slowly pivot the Handlebar in the direction that you want to turn. The INMOTION SCV will rotate so that you turn in place.
- After you are comfortable going forward and backward and turning in place, try slowly riding forward and turning at the same time. Keep your body leaning in the direction of the turn, and in coordination with the angle of the Turning Shaft while turning.
- Because abrupt turns can be dangerous, always lean into turns slowly and smoothly.



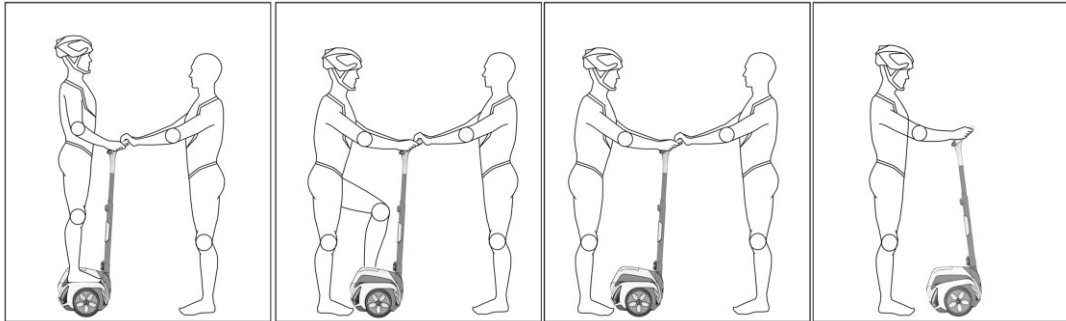
WARNING!

- Do not ride crosswise or turn on a slope, or it will cause balance angle shifting and thus be dangerous.

3.1.7. Stepping Off

When you are ready to step off the INMOTION SCV for the first time, your helper should hold the Handlebar. To step off the INMOTION SCV:

- Remain stationary by keeping your weight centered over the Wheels and Footboard Mat and keep the Handlebar vertical. Step off the INMOTION SCV slowly, one foot at a time.
- After you have stepped off, continue to hold the Handlebar for about a second. You can lean the INMOTION SCV backward and park it when you hear a tone.



WARNING!

- Do not pull the Turning Shaft backward when stepping off. It may make the SCV move backward, causing unpredictable damage. While getting off, do not lean the Handlebar forward or it will move forward if you haven't completely moved your weight off.
- Practice stepping off for the first time with your helper standing close by.

3.1.8. Securing Your INMOTION SCV

The INMOTION SCV has Lock Mode in case you need to leave your INMOTION SCV unattended. You can lock the Handlebar by control shortcut through your smartphone and put INMOTION SCV. When the INMOTION SCV is in Lock Mode:

- If anyone tries to move or shake the INMOTION SCV, it will trigger the warning alert and SCV body vibration.
- The Tires will be locked to make it difficult to move your INMOTION SCV.
- The system will exit Lock Mode and shut off after four hours to save energy.
- Lock Mode is intended for use when you remain in close proximity to the INMOTION SCV, and are able to respond to an alarm. The best way to discourage tampering with your INMOTION SCV is to keep it in a secure indoor location with the SmartKey stored separately.

3.1.9. Powering Off the INMOTION SCV

- When you lean INMOTION SCV and put SCV backward, it will switch off Automatically. The digital display over the battery will also be off.
- Power off the INMOTION SCV by pressing the Power Button (A) on the SmartKey.
- The display on the SmartKey will show an icon and shut off.

3.2. Practice Drive

You will need to become very familiar with your INMOTION SCV before you attempt to ride outside of your controlled practice environment. The more you practice, the safer you will be when you move into new places. Remember the following as you practice:

- Use Training Mode and ride in areas free of obstacles and distractions until you are comfortable on your

INMOTION SCV. Practice at the Training level until you can step on, ride forward and backward, turn, stop, and step off with the same precision and confidence as you walk.

- With practice, you should be able to ride in narrow areas. Make sure you leave enough wheel clearance.
- Until you can ride with this precision, do not attempt to ride outdoors.
- Use caution when riding in new environments.
- Be careful when riding through doorways.
- Watch out for terrain transitions such as pavement to grass.

3.3. Short Handlebar Mode

After users familiar with skillful usage of SCV, short handle accessories can bring better driving experience, Inmotion SCV set up a short handle mode. Short handle mode adjusted the parameters of the car specifically for riders, so that Inmotion SCV in short handle mode can be more flexible and swift.

3.4. Auxiliary Mode

In Auxiliary Mode, the system will provide appropriate power to help the rider drag the INMOTION SCV when unwilling or unable to ride the SCV. Assisting Function works as below:

- In power-on mode, a full left or right(that is when you cannot turn the handlebar to the left or right any further), it will enter Assist Mode automatically;
- This mode can be started from any angle
- Once you step off INMOTION SCV by one foot, it will turn off the Assist Mode;
- When riding in Assist Mode, i.e., both of your feet are on the Footboard, it will stay in Assist Mode when you step

off;

INMOTION SCV is capable to finish a full circle turning

- The INMOTION SCV shifts to Speed Mode when either side of the Footboard Mat is stepped on.
- Assist Mode is disabled and Sleep Mode is activated when the rider is leaning or shaking the Turning Shaft forward and backward at high frequency.
- Assist Mode is disabled and Sleep Mode is activated after INMOTION SCV has still for 2 minutes.

See Section **2.6 SmartKey** for more information on how to activate Assist Mode.

3.5. Remote Control

The INMOTION SCV is just like a robot in Remote Control Mode. It can go forward, backward, turn, and stop with orders from the INMOTION App with Auto Walk function.

The INMOTION SCV will stand up automatically (get itself into a balance status when it is laid back) under Manual Control Mode when the INMOTION SCV and your App are linked. Now you can easily control your INMOTION SCV by toggling the buttons in the directions you want the SCV to go.

WARNING!

- Avoid using the Remote Control Mode on slippery and wet surfaces. It may result in your Wheels slipping and could cause serious injury or damage.
- Activate the Remote Control Mode in an open area.
- Be careful and avoid pedestrians and obstacles.

3.6. Self-check Mode

Self-check Mode allows you to run a thorough examination of your INMOTION SCV to see if any parameters have been shifted with by aging and environment. The INMOTION SCV will run tests under Self-check Mode and store the resulting data. Please refer to the smartphone app chapter in this manual for more information on self-check mode. The following chart shows which items are detected in Self-check Mode:

Item	Description
Steer Balance	Run the Steer Balance calibration if you detect that your INMOTION SCV leans in an incorrect direction when it stands in balance.
Footboard Mat Sensor	Calibrate the Footboard Mat sensors to level up the sensitivity.
RTC Time	Calibrate internal timer (by GPRS and GPS info.)
Encoder Absolute Position	Calibrate absolute position of the encoder, lift efficiency of SCV

CAUTION!

- Activate Self-check Mode in an open area.
- Park the INMOTION SCV on the ground and keep one meter distance from other objects.
- Make sure the Handlebar is vertical. Do not pull the Turning Shaft or hold the Handlebar.
- Do not place anything on the Footboard Mat, including your feet.
- Doing so could interfere with the result of Self-check, causing injury or damage.

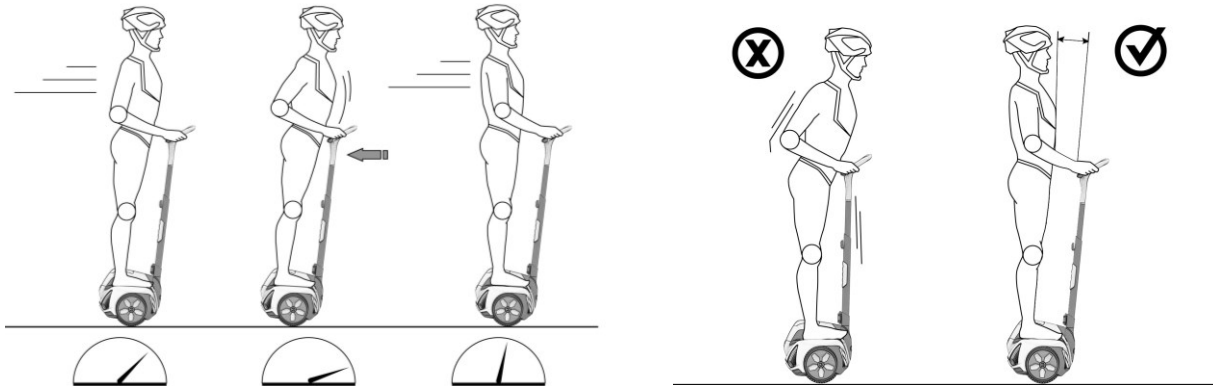
3.7. Safety Alerts

The INMOTION SCV is equipped with multiple safety alerts. It is important to understand these alerts before you attempt to ride your INMOTION SCV.

3.7.1. Speed Limiter

When you approach the maximum allowed speed for a given situation, the INMOTION SCV will push the handlebar back to slow you down. The following figure shows the process of speed limiter.

When the INMOTION SCV pushes the handlebar back, stop leaning forward and slow down. Always leave a gap between yourself and the handlebar to ensure safety and a smoothly ride. When you slow down, INMOTION SCV will balance itself according to your body movements.





WARNING!

- Continuing to accelerate and ride against the Handlebar could cause injury or damage from loss of control, collisions, and falls.

The speed at which the handlebar pushes back depends on a variety of factors including set-up speed limiter, terrain,

Continuous climbing	Motor temperature
Riding on bumpy roads	High Circuit temperature
The moment it powers on	Battery temperature too high or too low
Low battery	Continuous descending

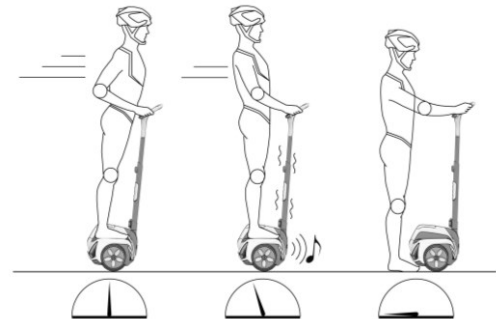
payload, and battery condition. The below list shows conditions that will trigger the speed limiter.

3.1.1 Safe Stop

If the INMOTION SCV detects severe faults or restrictions (such as being outside the specified riding range), it performs a Safety Shutdown.

When a Safety Shutdown occurs, the INMOTION SCV automatically reduces its speed, gives the Shaft Shake Warning (shakes the handlebar and makes growling noises), and emits a warning tone.

You have approximately 14 seconds from the start of a Safety Shutdown to come to a controlled stop and step off. After 14 seconds, the INMOTION SCV will immediately shut down when the Wheels reach zero speed.

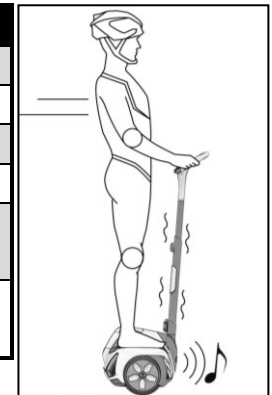


⚠ WARNING!

- Never restart and ride your INMOTION SCV after it has indicated an empty Battery or performed a Safety Shutdown due to low Battery. The INMOTION SCV may not have enough power to keep you balanced, especially if you accelerate, which requires more power.
- If you restart and continue riding after a Safety Shutdown due to low Battery, you risk falling. Also, you risk damaging your Battery Pack, resulting in reduced Battery life and capacity.
- When wheel slip or procedure errors, the wheel will be spinning. Immediately lift SCV and hold it upside down (the direction of the handlebar tilt 30 ° and above) until the wheels will stop spinning. If still this can not control SCV, please remove the battery, and then re-install it. One of the ways that the INMOTION SCV notifies you when you are at risk of falling is by vibrating and releasing a warning sound.

The following chart shows situations that trigger a Shaft Shake Warning, and recommended actions:

Possible Causes	Recommended Action
Riding aggressively, accelerating or stopping abruptly.	Ride smoothly.
Riding against the Handlebar to speed up.	Leave a gap between yourself and the handlebar.
Riding on rough terrain or steep slopes.	Ride on smoother and flatter terrain.
Riding backwards too quickly.	Stop, turn in place, and proceed forward.
Safe Stop has been triggered.	Come to a controlled stop and safely step off the Powerbase within 14 seconds.
Pulling the INMOTION SCV too fast in the Assist Mode.	Stably drag INMOTION SCV.



Trying to get on when the angle is too great.

Lay the Footboard at a moderate angle first.

3.8. Environmental Factors Affecting the Vehicle's Performance

3.8.1. Riding Distance

Riding distance per charge is greatly influenced by riding habits and environmental factors. The following chart shows factors that have great influence:

Factors	Possible Causes
Road Condition	Riding the INMOTION SCV on flat roads will increase riding distance per charge. On the contrary, riding on hillsides or steep slopes will decrease riding distance.
Speed and Riding Habits	Riding the INMOTION SCV with constant speed will increase riding distance per charge. Stepping on and off and speeding up and slowing down frequently will decrease riding distance.
Load	Riding the INMOTION SCV with a light cargo load will increase riding distance per charge.
Temperature	Riding the INMOTION SCV in cold weather will decrease riding distance per charge. The INMOTION SCV performs most efficiently when it is close to the center of the recommended riding temperature range.
Battery Condition	Keeping the Battery in a good condition will increase riding distance per charge. Using an old, overloaded or poorly maintained Battery Pack will significantly decrease riding distance.
Wind Direction	Riding with the wind behind you will increase riding distance per charge.

3.8.2. Riding in High Temperatures

The temperature of the components (including the Motor, Battery Pack, Riding System, etc.) is raised when riding the INMOTION SCV in warm weather. This could affect the INMOTION SCV's service life. If the components get excessively hot

($\geq 50^{\circ}\text{C}$ or 122°F) while riding the INMOTION SCV will slow down automatically. The hotter the components are, the lower the speed will be. If the components get very hot ($\geq 80^{\circ}\text{C}$ or 176°F) while riding, the INMOTION SCV may activate a safety alert. You should stop riding immediately and wait until the components cool off before you continue your ride.

3.8.3. Riding in Cold Temperatures

Too low temperatures will deteriorate component lubrication and increase resistance. Also the battery discharge capability and capacity will decrease dramatically in a low temperature environment. Avoid applying drastic actions with your INMOTION SCV in cold temperatures ($\leq -5^{\circ}\text{C}$ or 23°F), or you could cause the INMOTION SCV to lose control, and you could fall.

3.8.4. Climbing

When the INMOTION SCV is climbing, the inner temperature will increase, especially during long periods of continuous climbing. Even though the system will slow your speed while climbing, we still suggest you avoid long periods of continuous climbing.

3.8.5. Descending

The INMOTION SCV will collect energy while descending, and the motor will work as a power generator and store electricity in the Battery Pack. Thus continuous descents will allow you to travel longer distances on one charge.

When the battery is full, charging the battery this way could cause damage to the battery, therefore the system will automatically lower the max speed to reduce the possibility of excessive charging.

4. Using the Battery Pack

This chapter describes how to charge and maintain your INMOTION SCV Battery Pack.

4.1. Parameters for the Battery Pack

The following chart lists the specifications for the Battery Pack.

Specifications	Item	Note
Battery type	Lithium-ion Battery	ⓐThe voltage here refers to lithium battery voltage when the capacity is moderate. ⓑThe Battery may not be charged when the temperatures below 0 °C (32 °F).
Charging Time	About 5.5 Hours ①	
Voltage	72 V ①	
Capacity	6 Ah	
Battery Pack Weight	3.5 ± 0.1 Kg	
Dimensions	225*147*82 mm (8.8*5.8*3.2 inch)	
Operating Temperature Range	-10 °C ~ 50 °C (14 ~ 122 °F)	
Charging Temperature Range	5°C ~ 45°C (41 ~ 113°F) ⓑ	
Storage Temperature Range	-20 °C ~ 50 °C (-4 ~ 122 °F)	

4.2. Battery Safety

For your safety and the safety of others, and to maximize Battery Pack life and performance, follow the instructions in this Manual.

- Do not use the Battery Pack if the casing is broken, emits an unusual odor or is excessively warm or leaks any substance.
- Follow the instructions for charging and storage, otherwise the Battery Pack could fully discharge over time, causing permanent damage.
- Charging time for the INMOTION SCV is about 3.5 hours. The charger will power off automatically after the Battery Pack is fully charged.
- Battery Packs can be charged about 500 times. The battery life is drastically reduced after this period and over extended periods of time.
- The INMOTION SCV Battery Pack should be charged for at least 4 hours before the first use.
- The Battery charges most efficiently when it is close to the center of the recommended charging temperature range of +10°C~+30°C (50° to 86° F).
- It is normal for the Battery Pack to become hot after long periods of use.
- Riding in cold temperatures will reduce battery life.
- Comply with all local, federal and individual country laws when disposing of and transporting the INMOTION SCV Battery Pack.
- Avoid contact with any substance seeping from the Battery Pack.
- For the best performance, please charge the Battery Pack in an environment temperature of +10 °C ~ +30 °C (50° to 86° F)
- Keep Battery Pack out of reach of children and pets. Exposure to Battery voltage could result in injury.
- The cells within the Battery Pack contain toxic substances. Do not attempt to open Battery Pack. Do not insert any object into the Battery Pack or use any device to pry at the Battery Pack casing. If you insert an object into any of the Battery Pack ports or openings you could suffer electric shock, injury, burns, or cause a fire.

- Only charge the Battery Pack using approved charging adapters.
- Use a grounded AC outlet and a charging cord that is in compliance with local standards.
- Keep the Charger, Charge Port, Power Cord and AC outlet clean and dry.
- Do not insert the plug if the Charge Port, Power Cord or AC Power outlet is wet.
- Do not heat up the Battery Pack or throw it into a fire. Do not use the Battery Pack in high temperatures.
- Keep the Battery Pack in a cool, dry place when storing.
- Do not put any conductive object into the Charge Port. It may damage electronic devices inside the INMOTION SCV.
- Do not attempt to open the Battery Pack. There are no user serviceable parts inside.

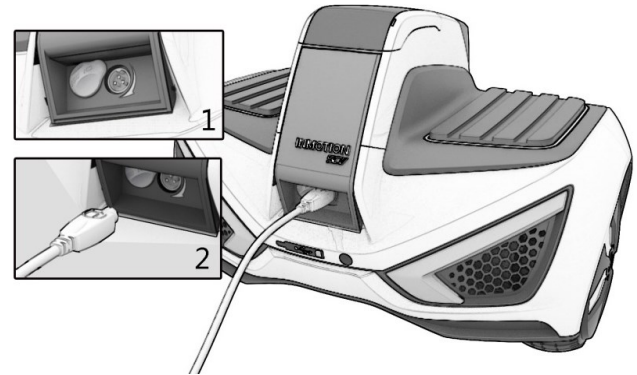
4.3. Charging Procedures

To charge the Battery Pack:

1. Open the Charge Port of your INMOTION SCV. Verify that the Charge Port is dry.

2. Plug one end of the Power Cord into the Charge Port of your INMOTION SCV with the INMOTION LOGO on the charger facing up. Plug the other end of the Power Cord into an AC outlet (100 V~ 240 V; 50 Hz or 60 Hz).

3. Verify that the Charge Indicator lights are red, which indicates the INMOTION SCV is charging. When charging completes (indicator lights turn green), unplug the charger from the electrical outlet.



4.3.1. Charging Indicator

The Info LED shows the current Battery life. The Battery gauge blinks to indicate the Battery Pack is charging (for example, the fourth bar is flashing when the current Battery amount is at 3 bars.).



WARNING!

- Failure to charge the Battery Pack properly could result in permanent damage. If the Battery Pack is excessively discharged, it could also cause serious damage.
- Be sure to use the original charger for INMOTION charging.
- Please carefully read the Safety Notes before you use the Battery Pack.

4.4. Replacing the Battery Pack

The INMOTION SCV Battery Pack can be used about 500 times in normal condition. Under following condition, we suggest you change battery:

After 500 times recharge, the battery capacity will reduce. For maximizing the efficiency and travelling distance, we suggest you change the battery.

If the battery get damaged, such as overly discharge and damaged by external force, the battery must be abandoned and to insure your safety, consumer should replace the battery. Replace the Battery Pack to ensure the best performance of the INMOTION SCV. Back-up Battery Packs can only be replaced by Authorized INMOTION Dealers and Distributors. Battery can only be changed by professionals; Customer will bear all consequences if customer changed battery by itself.

4.5. Transporting Battery Pack

When transporting your INMOTION SCV, protect the Battery Pack to avoid damage during shipment. Do not expose the Battery Pack to direct heat or moisture, and avoid heavy vibration during transportation.



WARNING!

- Do not use or transport a Battery Pack if the casing has broken open.
- Lithium-ion Battery Packs are considered Hazardous Materials under shipping regulations. Comply with all local, federal and individual country laws when transporting the INMOTION SCV Battery Pack.

The shipping methods for Lithium-ion Battery Packs are as follows:

	Ground	Sea	Air
Battery Pack Installed	Allowed	Allowed	Certificates Needed*
Battery Pack Not Installed	Certificates Needed*		

* If you need certificates for transportation, please contact INMOTION at info@imscv.com.

5. Safe Riding

INMOTION SCV is not only an intelligent and convenient vehicle, but also an entertaining and sport tool. Ride safely to enjoy the convenience and pleasure of the INMOTION SCV.

Reminder—even if you follow the instructions in this User Manual strictly, once the INMOTION SCV is on public roads or property, you may still risk injury from other people’s bad riding behaviors. Be careful when riding the INMOTION on public property.

5.1. Rules That You Must Follow

- Read the User Manual and watch the Safety Videos carefully (you can download them from our website). Be familiar with the contents and follow the safety instructions.
- Be familiar with and obey all local laws and regulations, and only ride your INMOTION SCV in places that riding SCV’s is allowed.
- Do not use the INMOTION SCV if you are under the influence of alcohol, banned substances or prescription medications.
- Wear a helmet, and elbow and knee pads when riding your INMOTION SCV.
- Wear proper clothing. Do not wear sharp jewelry or high heels to avoid damage or injury.
- The INMOTION SCV’s payload range is between 25Kg and 100 Kg (55 ~220 lbs.). Do not attempt to ride if you are beyond this weight range.
- Always make sure the battery is fully charged before riding. If not, do not ride it further than 5 Km (3 miles).
- Make sure the Quick Release Lock is locked, the Turning Shaft and the Handlebar are installed properly, and the screws are properly tight before riding.

- Make sure the INMOTION SCV body is solid and intact before riding, and that there are no abnormal noises while riding.
- Adjust the Turning Shaft to an appropriate height.
- Be aware of the traffic or objects ahead of you, and keep a clear view.
- Wear glasses or contact lens if needed for driving.
- Stay alert while riding and keep a safe distance from other people and transportation vehicles.

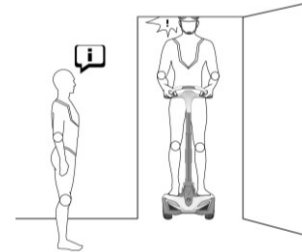
5.2. Actions You Must Avoid

- Do not use the INMOTION SCV in areas that are forbidden, according to local laws or regulations.
- Do not ride the INMOTION SCV on roads. Some government authorities forbid use of Sensor Controlled Vehicles on public roads and sidewalks. Consult local authorities to become familiar with applicable laws and regulations before riding.
- Do not modify the components of the INMOTION SCV or ride a modified SCV. Modifying an INMOTION will affect its performance and can cause damage.
- Do not ride the INMOTION SCV on slippery roads or in bad weather conditions, such as heavy rain, snow or ice.
- Do not ride the INMOTION SCV on uneven roads that are full of sticks, trash or stones.
- Do not ride the INMOTION SCV in dangerous environment, such as road with pits and cracks, steep slopes that are steeper than 15°, water deeper than 3 cm (1.2 inches) and so on.
- Do not ride the INMOTION SCV in unsafe places where flammable gas, steam, liquid or dust may cause fire or explosion.
- The INMOTION SCV cannot be ridden by two or more people at the same time.
- Do not ride the INMOTION SCV on roads unless you are familiar with the operations.
- Children under 14 should not ride the INMOTION SCV alone.

- Pregnant women, heavy drinkers, medicating patients, cardiac patients, the children who are under 6, the disables and elders who are over 60 should not ride the INMOTION SCV.
- Do not ride the INMOTION SCV with both hands off the Turning Shaft. Do not press your body on the Handlebar.
- Do not move your foot off the Footboard Mat while riding the INMOTION SCV. If the rider gets off the vehicle improperly, the wheels will spin for about 2 seconds, which is not a failure but a protection.
- Do not force restart the INMOTION SCV when it shuts off automatically or when the battery ran out, or it will cause falls because of losing balance.
- Do not ride backwards either slow or fast for a long distance. Do not turn when you ride backwards. Do not go down or upstairs or spring off the ground with the INMOTION SCV.
- Do not ride crosswise on steep slopes.
- Do not make or answer phone calls, listen to music, eat or drink while riding. Even checking battery information on the Smart Key or Info LED may distract you.
- Do not break any other rules in the User Manual. Pay special attention to the content in the WARNING or NOTE column.

5.3. Safety Alerts

- Before letting others ride your INMOTION SCV make sure that they have watched the Safety Videos and read this User Manual carefully.
- When riding the INMOTION SCV, please wear a good quality, well-fitting helmet. Wear protective gear, such as wrist and knee guards, and waist and eye protection, if riding conditions are dangerous.
- Always ride the INMOTION SCV in a well-lit area. Be cautious and ride slowly if the lighting is not sufficient. Mount an external LED light, if necessary.



- You are 23 cm (9 inches) taller when riding the INMOTION SCV. Be careful with obstacles above you, such as door frames, branches, and signs.
- Be observant of your surroundings. Slow down when you are near other people, especially children, and let them pass first.
- Keep a safe distance from other SCV riders. Ride inline rather than side by side.
- Control your riding speed and make sure that you are able to stop at anytime.
- Remain relaxed, with slightly bent elbows and knees, and look straight forward while riding.
- Do not ride the INMOTION SCV backward unless you are trying to avoid obstacles in front of you.
- Do not strongly pull the Handlebar forward and backward, or change your body position drastically. This can cause injury or damage.
- Always leave a small gap between yourself and the Handlebar. Do not lean against the Handlebar or the Turning Shaft as this may cause you to fall.
- Please step off of the INMOTION SCV and charge the Battery Pack when the INMOTION SCV has a low battery.
- Do not park the INMOTION SCV in places where traffic will be blocked.
- Do not rest anything on the Footboard Mat while riding the INMOTION.
- Stay where you are and call for the police if you are in a traffic accident.
- If you need to carry something on your ride, use the INMOTION Front Bag as a backpack. If attached to the Handlebar, the total load cannot be over 5 Kg (11 lbs.).
- Make sure the INMOTION SCV is powered off before transporting it. Use auxiliary parts to transport your INMOTION if necessary. Do not lift the INMOTION SCV from the sides of the Tires to avoid fingers being stuck between the case and the Tires.



- Clean and perform routine maintenance on your INMOTION SCV regularly.

6. Operating and Maintaining Your INMOTIONSCV

6.1. Lifting Your INMOTION SCV

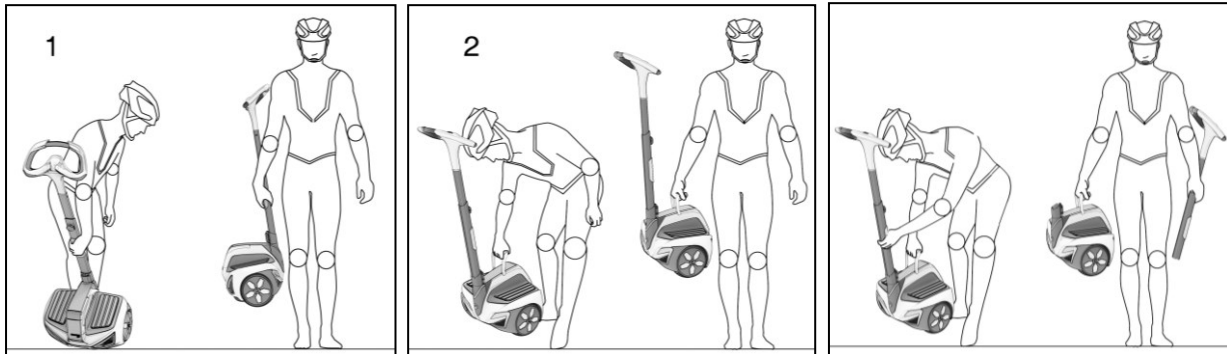
The INMOTION SCV is designed to be lifted easily. Lift it from the Turning Shaft or the Grip.

6.1.1. Lifting your INMOTION SCV by the Turning Shaft

Lift your INMOTION SCV using the Rubber Handle on the Turning Shaft.

6.1.2. Lifting your INMOTION SCV by the Metal Grip

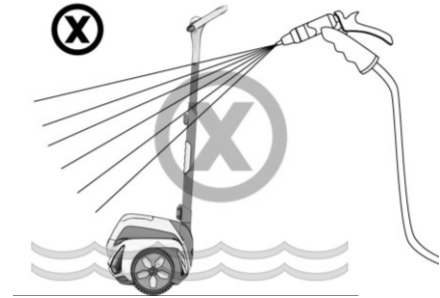
Lift your INMOTION SCV using the Metal Grip when you need to carry it for long distances, or are carrying it without the Turning Shaft attached.



6.2. Cleaning Your INMOTION SCV

Clean your INMOTION SCV:

- Make sure the INMOTION SCV is unplugged and powered off
- Make sure the Charging Port Cover is closed before cleaning
- Gently clean your INMOTION SCV with soap, water and a soft cloth
- Don't allow water to get into the Charging Port.



WARNING!

- The INMOTION SCV is rated Dust protected under sealed condition IP55 and protects against dust. But it is not waterproof, and should not be cleaned using a hose. Water may cause permanent damage to the INMOTION SCV.
- Do not use a power washer or high pressure hose to clean your INMOTION SCV.

6.3. Storing Your INMOTION SCV

Store your INMOTION SCV indoors, in a place that is free of moisture, humidity, and extreme temperatures. To maximize the performance of your INMOTION SCV Battery Pack, fully charge your Battery Pack before storage, and while in storage fully charge it every three months.

6.4. Maintaining Your INMOTION SCV

- Check the Tires and Wheels periodically to see if they have become loose. If the Tires are loose, check the sockets

and tighten them. Check the bottom of the Tires to see if they are badly or unevenly worn. If they are, please contact us to replace them.

- Check the Handlebar periodically. Tilt the Handlebar fully left and then right. If it is loose, check the sockets and tighten them.
- Check the Quick Release Lock periodically. Tighten it if it is loose.
- Check that the ABS Shell is in good shape. Replace any part that is broken. Please contact Customer Care if you need further maintenance or replacements.
- INMOTION Technology(Shenzhen)Co., Ltd. provides one-year free maintenance for your INMOTION SCV. For detailed information, please refer to the “INMOTION SCV Maintenance Service Guide”.



WARNING!

- Do not attempt to open the ABS Shell, circuit board or gear box. There are no user-serviceable parts inside.
- Opening the ABS Shell could void the warranty, damage your INMOTION SCV and render it unsafe to use.
- Please read the INMOTION SCV Maintenance Service Guide carefully and follow the instructions for maintenance of your INMOTION SCV, .

7. Troubleshooting the INMOTION SCV

You can troubleshoot certain problems with your INMOTION SCV before contacting an Authorized INMOTION Dealer or Distributor, or INMOTION Customer Care. This chapter provides lists of problems and recommended actions.

Some common problems:

- The INMOTION SCV will not power on
- The INMOTION SCV will not enter Balance Mode
- The INMOTION SCV is prone to shaking
- The Turning Shaft slips or is off-centered
- The INMOTION SCV will not power off
- The INMOTION SCV cannot link to your smartphone

If you're experiencing a problem with your INMOTION SCV, first check the error data on your smartphone App. Please refer to the help section on INMOTION applications and review the specific content for resolving your problem. If you are still unable to resolve the problem, please contact an Authorized INMOTION Dealer or Distributor, or INMOTION Customer Care at service@imscv.com or info@imscv.com.

7.1. Common Faults

This list describes some common faults, the possible reasons, and recommended solutions.

Code	Description	Possible Causes	Recommended Action
27	Age Error	The INMOTION SCV has reached its lifetime expectancy.	Stop using the INMOTION SCV
29	Bluetooth Error	Bluetooth Module Communication Failure	Reconnect with Bluetooth, and restart INMOTION SCV
31	CAN Error	Electric Circuit Failure	Contact INMOTION Customer Care at service@imscv.com
32	Sensor Error	Sensor Failure	Contact INMOTION Customer Care at service@imscv.com
33	Excessive Angle	Excessive angle due to road conditions or other reasons when the INMOTION SCV is in Balance Mode	Ride the INMOTION SCV following instructions. See page 10 for Max Climbing Angle.
34	Excessive Speed	Excessive Speed when the INMOTION SCV exits Balance Mode	Reduce speed before stepping off
35	Locked and move	The angle or the position has changed while the INMOTION SCV is in Lock Mode	Move or use the INMOTION SCV only after it is unlocked
46	Battery Access Error	You are not using an INMOTION Battery	Use only the INMOTION Battery Pack. In case of

		Pack, or Battery failure	Battery failure, contact INMOTION Customer Care at service@imscv.com
47	Battery Discharge Error	Battery Failure	Contact INMOTION Customer Care at service@imscv.com
49	Low Battery Voltage	Battery voltage is too low	Recharge the Battery Pack
62 63	Abnormal Motor Temperature	Motor temperature or environmental temperature is too high or too low	Stop using the INMOTION SCV and let it rest. Use the INMOTION SCV at the proper temperature. See page 11 for ideal Operating Temperature Range.
66 67	Large Motor Electric Current	Overload	Ride the INMOTION SCV following proper operating instructions and avoid steep or rugged surfaces.

7.2. The INMOTION SCV Cannot Power On

Recommended Action:

- Make sure your INMOTION SCV's Battery Pack is charged.
- Make sure your SmartKey is charged.
- Make sure your smartphone app has connected INMOTION SCV.
- Check the icon on your smartphone app and make sure if INMOTION SCV body is self-locked.
- Make sure you and your SmartKey are no further than 5m (15 ft.) from your INMOTION SCV.
- Verify that the SmartKey and your INMOTION SCV are linked.

- Check the SmartKey to make sure the INMOTION SCV is not locked.
- If the INMOTION SCV can still not power on, remove the Battery Pack and then reinsert it.

7.3. The INMOTION SCV Cannot Enter Balance Mode

Recommended Action:

- Confirm the INMOTION SCV is powered on.
- Make sure the Turning Shaft is centered and the Footboard Mat is level.
- Confirm there is no weight on the Footboard Mat.
- Tap the left side of the Footboard Mat with your foot without stepping on, and then tap the right side with your other foot.
- If the INMOTION SCV still cannot enter Balance Mode, check to see if there is an error icon on your SmartKey.
- If the INMOTION SCV still cannot power on, remove the Battery Pack and then reinsert it.

7.4. The INMOTION SCV Is Shaking

Recommended Action:

- Check the joints between the Handlebar and the Turning Shaft. If they are loose, tighten them.
- Check the joints between the Handlebar and the Quick Release Lock. If they are loose, tighten them.
- Check the joints between the Tires and the Wheels. If they are loose, tighten them.

7.5. The Turning Shaft Slips or Is Off-Centered

Recommended Action:

- Step on the Footboard Mat and stand still. If the INMOTION SCV turns to one side automatically, activate Self-check Mode.
- Check the Tires and make sure they are not worn. If the Tires appear to be in good condition, activate Self-check Mode.
- Use your INMOTION SCV Smartphone App to adjust steering sensitivity.

7.6. The INMOTION SCV Cannot Power Off

Recommended Action:

- Check the Footboard Mat to make sure there is nothing on it and that it is not stuck.
- If the INMOTION SCV still cannot power off, turn it upside down (the Handlebar should be pitched at an angle of 30°). The Wheels will be rolling and you can now safely power it off.
- If the INMOTION SCV still cannot power off, remove the Battery Pack and then reinsert it.
- Press and hold the Power button on the Smart Key for two seconds to restart the INMOTION SCV.

7.7. The INMOTION SCV Cannot Be Added in the App

Recommended Action:

- Make sure the INMOTION SCV is not powered off. If it is powered off, restart it.
- Wi-Fi system needs 1~2 minutes to initialize.
- If the INMOTION SCV is set to use a Dynamic IP Address, please be aware that it may take 1~2 minutes to get the IP address. (Make sure you are connected to a DHCP server that can effectively distribute IP addresses.)
- The INMOTION SCV will activate AP mode automatically if you have not set up a Wi-Fi AP list before.

Manually search your INMOTION SCV SSID via the App then connect.

- If the INMOTION SCV has BlueTooth module, please make sure there is no BlueTooth Module communication error. You can reconnect the BlueTooth module and restart INMOTION SCV.

7.8. No Alert Sounds

- Check whether you have mistakenly touched the express control on the Handlebar to turn off the alert sounds. Please try in power off mode to turn the Handlebar to the utmost left and hold I for 3s until there is the “power on” alert sound;
- Check the volume on the smartphone app and see whether you have turned it to minimum volume.

8. Contact and Legal Information

8.1. Report a Problem

If you have any problems with your INMOTION SCV please contact INMOTION Customer Care at service@imscv.com.

We are all ears to your suggestion and serve you wholeheartedly.

8.2. How to Reach Us

- INMOTION Technologies Co., Ltd.
- Tel.:40000-1000-12
- E-mail: service@imscv.com

8.3. Obey All Laws and Regulations

INMOTION SCV can be used as an intelligent and portable transporter, but SCV cannot replace current transportation.

Please do not ride on public roads. Before riding the INMOTION SCV on public roads and sidewalks please consult local authorities and become familiar with applicable laws and regulations. You can also consult local authorized INMOTION dealers and after sales service department.

8.4. Version

User Manual V2.0

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

This device 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.

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.

FCC RF Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter.

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