

**iNMOTION**



**INMOTION SCV**

**V5** Series

**USER MANUAL**

INMOTION TECHNOLOGIES CO.,LTD.

[www.ims cv.com](http://www.ims cv.com)

***i*NMOTION**

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# Overview

For your riding safety, please read this manual and the user guide carefully, and also watch the video on riding guidance before using INMOTION SCV V5 Series Versions (hereinafter referred to as INMOTION SCV V5) to understand how to correctly drive the INMOTION SCV V5.

Please read carefully and understand all the safety warnings and precautions in this manual, which is helpful for you to better control the INMOTION SCV V5.

This manual applies to the INMOTION SCV V5 produced by INMOTION Technologies Co., Ltd.

If you have any questions or cannot find the information you need from this manual, please contact the dealer authorized by INMOTION or the after-sales service center of INMOTION in time.

The PDF document for User Manual, video document of Safety Video, INMOTION APP, and other help files can be downloaded from the official website of INMOTION Technologies Co., Ltd.: [www.imscv.com](http://www.imscv.com).

## 1. About the Product

INMOTION SCV V5 is a fashionable, interesting, and practical travel and entertainment tool. In line with the dynamic balance principle, INMOTION SCV V5 can detect changes of its body pose with the built-in gyroscope and acceleration sensor, and accurately drive a motor by the servo control system to adjust accordingly for balance. Users can move forward, speed up, slow down, brake the V5, and perform other riding operations by tilting their bodies forth or back, and also can keep the lateral balance by controlling their bodies.

### 1.1. Product Serial Number

The serial number, a 16-character sequence normally accompanied by one-dimensional barcode or below two-dimensional barcode, is the unique identifier of the product. It is used for quality tracing, after-sales service, insurance claim, lost confirmation, and other occasions. Please make sure to record and keep the serial number.

You can obtain the product serial number from: outer package of the product, product warranty card, and V5 body.

## 1.2.Product Parameters

V5 Series Versions	V5	V5F (Overseas)	
Color	White, black	White, black	<p>①The Mileage is measured on a level road, with the temperature being 25°C and load being 70kg. riding habits, environmental temperature, road surface conditions, etc., can affect the actual mileage. Different model versions and battery capacity also lead to different riding mileages.</p> <p>② This speed was measured with 70KG payload.</p> <p>③Default speed is 20KM/H. Customers need to adjust from INMOTION APP to get 25KM/H.</p>
Net Weight	10.9kg	11.9kg	
Mileage ①	15~20km	40~45km	
Max. Speed ②	20km/h	25km/h ③	
Climbing Angle	18°	18°	
Payload	120kg	120kg	
Charging Time	About 1.5H	About 4h	
Inner Tire Dimension	14 inch × 2.125	14 inch × 2.125	
Outer Tire Dimension	14 inch × 1.95	14 inch × 1.95	
Factory Default Tire Pressure	2.8BAR	2.8BAR	
Waterproof Level	IP55	IP55	
Operating Temperature	-10 ~ 40°C	-10 ~ 40°C	
Motor Power	550W	550W	
Battery	2.6AH 187.2Wh	5.2AH 374.4Wh	
Charger Input Voltage	AC 220V	AC110~ 220V	
Charger Output Voltage	84V*1.5A	84V*1.5A	

### **1.3.Handle bar and assist Mode**

INMOTION SCV V5 provides optional handle bar that must to be purchased from INMOTION and installed by users themselves. The assist mode enables the system to provide proper riding force at a lower power and help users push INMOTION SCV V5 easily when users do not want to ride or when the condition is not suitable for riding (for instance, insufficient electric quantity, steep slope, wet and slippery ground, sand, bumpy road, crowded environment, etc.), which greatly improves the portability.

### **1.4.Button for Preventing Tire Rotation**

Due to the unique algorithm of INMOTION SCV V5, if the body angle varies after the V5 body lifts off the ground under normal startup state, motor spinning accelerates until the V5 is shut down. If being placed on the ground during motor acceleration, the V5 is likely to fly off due to the friction between wheels and ground, and there is the risk of running into others in some cases, such as elevators, stairs, getting on or off the bus, or crowded places.

The anti-spinning key below the body handle is designed for the INMOTION SCV V5 according to its characteristics. When the user holds the handle to lift up the V5, the key will be automatically triggered, and the V5 will enter the sleep state. In the meantime, the motor will no longer rotate to avoid spinning accordingly. Remove your hand from the handle key to let the V5 fall to the ground again. The V5 will return to normal condition for continual use.

The “Button for Preventing Tire Rotation” function is enabled by default when INMOTION SCV V5 leaves the factory. You need to shut down this function on the mobile APP if i learning rope for operation is installed on the handle. Users need to know the above functions and agree to accept the relevant legal liability statements when using this function.

### **1.5.Over speed Protection**

INMOTION SCV V5 limits the maximum riding speed to avoid dangers caused by too fast riding. When the V5 riding speed reaches the

maximum speed set by the system, the pedal will slightly tilt up for 3~5° accompanied by alarm sound. Users are required to slow down at this time. Do not accelerate forcibly (there is risk of car crash if performing forced acceleration, the personal injuries and all losses caused by failure to operate according to the specifications shall be borne by the users themselves). The pedal will return to normal angle once the normal speed is recovered.

When the electric quantity is less than 2 scales, the maximum speed limit will reduce gradually. When the electric quantity is increased or lower than the minimum riding voltage (0 scale), the V5 body will automatically tilt up the pedal to give the user the hint to stop riding; otherwise, damage is caused to the V5.

### **1.6. Slant Protection**

When the left and right tilt angle of the V5 body is more than 45° during riding, the system will induce the abnormality of the V5 body, and will automatically exit the self-balancing mode, so as to prevent the personal injuries caused by high-speed rotating tires after the tilting of the V5 body. In the meantime, the V5 plays the prompt tone of "Be careful". It is only necessary to correct the V5 body at this time to automatically enter the self-balancing mode.

### **1.7. INMOTION APP**

INMOTION APP is mobile software designed for INMOTION users by INMOTION Technologies Co., Ltd. to realize V5 control, make friends, release articles, attend INMOTION activities and purchase accessories. The English name of INMOTION APP is "INMOTION". INMOTION APP can be downloaded from our official website or corresponding APP stores (IOS system: Apple App Store; Android system: Google Play).

The following functions can be realized through INMOTION APP: startup/shutdown, turn on/off the light, speed display, mileage display, electric quantity display, V5 body parameter setting, voice customization, fault detection, after-sales service, firmware upgrade, etc.

For more detailed functions of INMOTION APP, download the product manual of the latest INMOTION APP from the official website.



**Prompt**

Bluetooth 4.0 BLE applies to Android 4.3 or above, iPhone 4S or above, IOS7.0 and superior versions, which can connect INMOTION SCV V5 with mobile phones.

## 2. Use of INMOTION SCV V5 Series

### 2.1 Safe Riding Precautions

INMOTION SCV V5 is a kind of intelligent travel and commuting and entertainment device. Failure to operate the V5 according to the procedures specified in this manual may result in riding risk. r Regardless of the time and location, it is likely to cause injuries even death and/or property loss to you due to decline, out of control, crash, etc., including riding the INMOTION SCV V5 without complying with the requirements described in this manual. You are advised to carefully read and follow this manual completely, watch relevant safety videos, and strictly follow the precautions below to reduce risks and to avoid injuries and losses:

- Users need to charge INMOTION SCV V5 at least once every month at room temperature. The battery damages caused by no regular maintenance are excluded from the warranty coverage of our company.
- Please wear a helmet and a protective gear during riding, and ensure that the pull rod has been folded in place.
- Do not drive the INMOTION SCV V5 to go up and down the slopes of more than 18°. Do not conduct rapid acceleration, rapid deceleration, and sudden turns either.
- Pay attention to obstacles on the road.
- Do not drive the V5 on the grass, gravel roads, wet and slippery roads, and under other inappropriate road conditions.
- The fording depth must be less than 70mm.
- Do not drive the V5 to climb up and down the stairs.



- Do not drive the V5 in the motor vehicle lanes.
- Do not soak the V5 in water.
- The riding speed must not exceed the maximum speed limits of this model.
- Do not perform rapid acceleration after tilting up the pedal (tilting the V5 body back).
- Do not sit on the pull rod or V5.
- Do not lift up the V5 in startup state.
- The beginners less than 18 years old or over 45 years old must be accompanied by others while learning how to drive the V5.
- Please ensure that the electric quantity is sufficient; and the tire pressure is normal before riding the V5.
- Please drive at a low speed instead of performing rapid acceleration, rapid deceleration, high-speed riding, and challenging stunts before being skilled in riding.

## **2.2 Preparations before riding**

INMOTION SCV V5 is a high-tech travel and commuting device. riding without learning about operating specifications may cause unexpected injuries and/or property loss. The instructions below are made for users, and contain details about how to properly drive INMOTION SCV V5. Matters needing attention during riding are also listed. Please read them carefully and drive INMOTION SCV V5 in accordance with the instructions.

- Make sure that all parts of INMOTION SCV V5 are free from damage and installed in place before riding.
- Charge the batteries of INMOTION SCV V5 for more than 1.5h before riding.
- You can practice riding in an open indoor or outdoor area that is flat and wide, and covers at least 4m \* 4m.
- Make sure that you know the surrounding riding environment well so that the V5 is free from the disturbance of cars, pedestrians, pets, bikes and other obstacles.
- Be accompanied by an assistant who is familiar with the operation of INMOTION SCV V5 as well as all the precautions and riding methods described in this manual.

- Do not perform trial drive on slippery and wet fields.
- Please wear comfortable sportswear and flats, and do warm-ups to maintain body flexibility as far as possible.
- Put on safety helmet and protective gear to avoid injuries.

## **2.3 Steps for Beginner**

- Hold the V5 body, and make sure that it is vertical to the ground after startup.
- Open the pedals on both sides. Step one foot on one side of the pedal. The sole shall be stepped on the center of the pedal.
- The upper body shall be naturally upright, and the eyes shall look straight ahead. Tilt the center of body weight to the other side of the pedal. Try to get the other foot off the ground to look for the balance point.
- Gradually begin to slowly slide forward by single-foot support, until the V5 can keep sliding for a long time when one foot steps on the pedal.
- After keeping the center of gravity balanced when sliding with one foot, you can step both feet on the pedals. Relax the lower legs on both sides to ensure the balanced riding.
- Your body will go through temporary imbalance during practice, which is very easy to cause the slant of the V5 body. It is necessary to lean on the railings or walls during single practice to help you keep your body in balance. You can also experience the feeling on the INMOTION SCV V5 when accompanied and supported by your friend, and learn how to drive the V5 step by step.
- After being gradually familiar with how to steadily drive straight ahead, you can try to change the direction according to the personal mastery over the V5 riding by adjusting the center of body weight or controlling your feet to twist around.

# **3. Maintenance and Service**

## **3.1. Storage**

Improper storage shortens the life of built-in lithium batteries or causes other hidden dangers. Please keep the INMOTION SCV V5 in a dry room at suitable temperature and humidity. If it is not used for a long time, please fully charge its battery at room temperature and at least once every month later.

### **3.2. Air Inflation , Inner and Outer Tire Replacement**

If the tire pressure is insufficient, please conduct air inflation in time. The factory tire pressure of INMOTION SCV V5 is 2.8Bar by default. If the tire of INMOTION SCV V5 needs to be replaced due to tire burst or other reasons, contact the dealer authorized by INMOTION or the after-sales service department of INMOTION for maintenance.

### **3.3. Pedal Tightness Adjustment**

Riders will feel uncomfortable if the pedals of INMOTION SCV V5 become loose, and will even fall under severe condition. If the pedals are loose, please use a M10 Allen driver and a M6 Allen driver respectively to tighten the screws on the axis and on the side edge of the axis. Please develop a habit of checking all parts of the INMOTION SCV V5 before using.

### **3.4. Precautions for Cleaning and Use**

- Before cleaning the V5, shut down the body, pull up the charging wire, and close the charging port. During cleaning, make sure that water does not flow into the battery-charging port.
- Use a soft cloth dipped with soapy water or clean water to scrub the outer cover of the INMOTION SCV V5. Do not use high-pressure water jet to flush the INMOTION SCV V5.
- The waterproof and dustproof level of the INMOTION SCV V5 is IP55, which means splash-proof and dustproof. Therefore, it is not allowed to dip the INMOTION SCV V5 in water, which may cause permanent damage to the V5.
- Please do not drive the INMOTION SCV V5 to pass through the deep-water zone (more than 70mm in depth). Please do not drive in a rainstorm, so as not to fall down or cause damages to the V5 because of soak in the water.

·Please do not place the INMOTION SCV V5 near the fire source or the places with extremely high temperature, so as to avoid battery damages even explosion caused by hidden fire-fighting dangers.

## **4. Legal Statement**

INMOTION SCV V5 can be considered as a intelligent and portable travel and commuting device. However, it is no replacement of the current existing means of transportation. When you use INMOTION SCV V5 as a means of transportation for short-distance travel, there might exist conditions causing injuries such as decline, crash, etc. and other risks. You have the responsibility and obligation to carefully read and learn the User Manual for INMOTION SCV V5 and User Guide; be familiar with how to drive the INMOTION SCV V5; and be fully aware of the warnings and precautions as well as the provisions specified in the following legal statement, so as to reduce (but cannot totally eliminate) potential risks and to ensure the personal and property safety of yourself and other people.

### **4.1. Use Statement**

For your safe application and good experience, kindly use the product in strict accordance with the following requirements:

1. Please make sure to carefully read and completely understand the User Manual for INMOTION SCV V5 and User Guide before using.
2. Please do not allow the ones who fail to carefully read and completely understand the User Manual for INMOTION SCV V5 and User Guide to use your INMOTION SCV V5.
3. Please follow instructions in the User Manual for INMOTION SCV V5 with regard to the riding age of 12-60 years old. Do not allow the ones who are beyond this age scope to drive the V5.
4. The pregnant and personnel who are not in normal physical or mental state cannot drive the V5.
5. When you are in a bad physical or mental state, such as sick, taking drugs, drinking, etc., please do not drive the V5.
6. INMOTION SCV V5 is a riding vehicle designed for one person only. Two or more people must not drive one V5 at the same time. Do not drive the V5 with loads or while holding a baby in your arms.

7. Please make sure that you are fully qualified in the physical and mental conditions for freely getting on/off and control the INMOTION SCV V5 without any assistance before riding.
8. Please do not modify or repair the INMOTION SCV V5 without permission or by the personnel who have not been authorized by our company. If there is anything wrong with the product, please contact the after-sales staff of INMOTION, which is your most secure option.
9. Please make sure that the INMOTION SCV V5 is not loose, damaged broken, or under other abnormal situations before riding.
10. Before charging, please make sure that the socket is dry, fault-free, and without any foreign matters. During charging, make sure to insert in the correct socket (100V-240V/50HZ-60HZ), and avoid coming contact with children and pets. Furthermore, keep the V5 away from the combustibles.
11. The batteries of INMOTION SCV V5 must be placed in the environment at -20°C-45°C. Please do not place the V5 in the environment where the temperature is above 45°C. When the temperature is below -20°C, the batteries will enter the self-locking state, which are unable to be charged or used. Please place the INMOTION SCV V5 in a warmer environment for charging and using.
12. If there is any leakage (including damage, giving off a peculiar smell/smoke, or overheating) in the batteries, please stop the vehicle immediately, and avoid its contact with other objects.
13. Do not attempt to open or disassemble the batteries on your own. Do not perform abnormal operations or application to the batteries.
14. Due to different battery status and environment, the standby time of the fully charged INMOTION SCV V5 (the electric quantity display screen has 5 scales) and the not fully charged INMOTION SCV V5 (the electric quantity display screen has 1 scale) is respectively 180 days and 30 days at most. Please pay attention to the standby time to avoid causing irreversible damage to the batteries because of failing to charge them in time.
15. Please do not wear high-heeled or other unsuitable shoes, and the clothes that are too loose-fitting and unsuitable when riding the INMOTION SCV V5. Furthermore, you must wear professional protective gear during riding.
16. You are highly recommended to wear protective glasses when riding the INMOTION SCV V5, so as to prevent eye injuries caused by

dirt, dust or insects in the air and the possible adverse effects on riding.

17. Do not drive INMOTION SCV V5 on rainy days and on other wet roads. When riding on the wet and slippery roads, the tire resistance reduces, the braking distance becomes longer, and the V5 is easy to slip, which might cause accidents, for instance, the INMOTION SCV V5 is out of control.

18. Please use a dry soft cloth to clean the V5 body. Do not use strong water flow or high-pressure hose to clean the V5 body. Do not soak the INMOTION SCV V5 in the water, so as to avoid uncontrollable faults, abnormalities, accidents, and other risks.

19. Do not drive the INMOTION SCV V5 in the bad weather and the adverse environment with low visibility and poor light. Do not drive the V5 when you are extremely tired.

20. Since it is difficult for drivers, motorists, and pedestrians to notice each other in time at night and in an environment with poor light, you are strongly advised against riding at night and in an environment with poor light, so as to avoid severe risks that might arise.

21. Please pay attention to the variation of road surfaces and surroundings when riding the INMOTION SCV V5. Drive carefully to avoid hurting yourself or others.

22. Please do not drive the V5 under unsuitable road conditions and in improper environment, such as on the stairs, in the elevators, or when passing through the revolving doors.

23. Pay attention to the distance among V5 body, body and obstacles when riding the INMOTION SCV V5.

24. Do not take the risk of riding on steep slopes, bumpy roads, or other terrains that you have never met before during riding.

25. Please do not make a turn at a rapid speed. Please do not slam the brakes on when riding the V5 on the slippery road. The above-mentioned behaviors are easy to cause slipping and other uncontrollable situations.

26. Please do not drive on the bicycle lanes. Please do not drive on the motor vehicle lanes and other unsuitable places. Please strictly obey the traffic rules and other laws and regulations. When the V5 comes close to or passes through the crossroads, motor vehicle lanes, corners, and doors, please pay attention to slow down and avoid. In the meanwhile, the driver needs to have defensive awareness and pay attention to the dangers that might cause by the traffic and pedestrians.

27. When riding the V5, pay attention to and take precautions against the vehicles from all directions, pedestrians, pot holes, sewer

separators, railway tracks, expansion joints, road surfaces, road construction, debris, and other obstacles as well as other dangerous situations that might affect the personal and property safety of you and others at any time.

28. Do not make and receive phone calls or do any activities or actions that might distract you when riding the INMOTION SCV V5, so as to pay attention to monitor the external environment at any time.

29. Please drive forward along the riding directions of the bicycle lanes allowed and specified by the local governments and laws or the road edges. Do not drive in a direction not allowed by traffic regulations.

30. Please do not cut in the ways of vehicles and pedestrians when going out by riding the INMOTION SCV V5.

31. Please do not put your hands on another means of transportation for dragging when riding the INMOTION SCV V5. Do not perform any improper behaviors, such as making stunts, doing any other extreme sports, etc.

32. Please do not drive the INMOTION SCV V5 alone when you need to drive to some remote area. It is necessary to prevent potential risks even when you drive the V5 along with others.

33. INMOTION SCV V5 is personal short-distance travel and commuting device. Do not use it for freight or other improper purposes.

34. The data and parameters of INMOTION SCV V5 vary along with different product models, which are subject to change by INMOTION without prior notice.

## **4.2. Personal Information Statement**

1. Your personal information shall include the personal information that you voluntarily enter to bind the INMOTION SCV V5 when using the INMOTION APP (hereinafter referred to as APP) to connect with the INMOTION SCV V5 for registered certification, and the personal information that you voluntarily provide during the product application, including but not limited to your name, gender, age, address, contact way, occupation, and the time and place for using our service, etc.

2. In the process of using the APP, your personal information provided during the owner certification, product serial number activation, questionnaire and after-sales follow-ups and return visits, solicitation of the opinions or suggestions with regard to products or services, and activity participation is convenient for us to provide better products and services for you, and improve your user experience.

3. You have the right not to provide your personal information. However, if you refuse to provide some of your personal information, we may not be able to provide better products and services for you, and even might deter you from using our products and services.

4. Any personal information provided by you shall be deemed as the fact that you have entirely agreed with the idea that your personal information can be used by INMOTION itself for its affiliated companies after the disclosure. The application of INMOTION and affiliated companies shall include but not be limited to the application of the internal staff, consultants, agents, suppliers, and partners of INMOTION and its affiliated companies.

5. You agree that we might provide your personal information to the interested third party when in line with any of the following conditions:

1) After your special authorization;

2) Conforming to the relevant laws and regulations or the mandatory requirements put forward by the government agencies (including the judiciary authorities);

3) Perform the Terms of Service available (including investigating possible violations);

4) Deal with frauds, safety or technical issues;

5) Protect the rights, properties or security of users or the public from being damaged within the scope of legal requirements or the allowable range;

6) The needs under special and/or emergency circumstances.

6. The electronic data of your personal information can be used for application, transmission and storage, and the above-mentioned behaviors might exist in or out of China.

7. You completely agree with the idea that INMOTION and its affiliated companies might push the information with regard to the products and services as well as the relevant activity information from time to time for your better application and experience.

8. We will take reasonable and safe measures to protect the safety of your personal information, and to prevent your personal information from being disclosed and used without authorization. Furthermore, we will also drive other interested parties accepting and using your personal information described in this legal statement to fulfill the same obligations. You agree with the idea that INMOTION



decides the time to save and keep your personal information according to the time required by intended use or any agreements, laws and regulations.

9. You agree to exempt INMOTION and/or its affiliated companies and other receivers and/or users from any claims, responsibilities and losses caused or might be caused by disclosing and using your personal information according to this legal statement, unless the above-mentioned claims, responsibilities and losses are caused by the direct intentional behaviors or gross negligence of the receivers and/or users.

### **4.3. Intellectual Property Statement**

Unless otherwise stipulated in laws and regulations, or otherwise agreed in agreements, all rights of the intellectual properties (including but not limited to the copyright, trademark right, patent right, application right, enforcement right, permissions, and other powers) with regard to the products and their accessories, APP and website are reserved by INMOTION. No illegal use or any other punishments shall be conducted without the prior written consent of INMOTION.

This legal statement shall apply to the Law of the People's Republic of China.

For all the claims, responsibilities and losses caused or might be caused by consumers and any third party violating this law statement, INMOTION shall assume no responsibility for the claims and any other obligations.

This legal statement constitutes the integral legal part of the INMOTION products (please make sure to transfer this legal statement during product resale). You can choose to accept all the terms and conditions of this legal statement for using the INMOTION products. If you use the INMOTION products, it shall be deemed as the fact that you have agreed to accept all the terms and conditions of this legal statement, and to undertake any possible risks and responsibilities.

If you do not agree to accept all the terms and conditions of this legal statement after purchasing our products, please return the goods; and make sure that the products and packaging are intact without affecting the secondary sales during the sales return.

Thank you for choosing INMOTION and trusting us. For any questions, contact us, and we are always ready to be at your service.

## **Contact Us**

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