

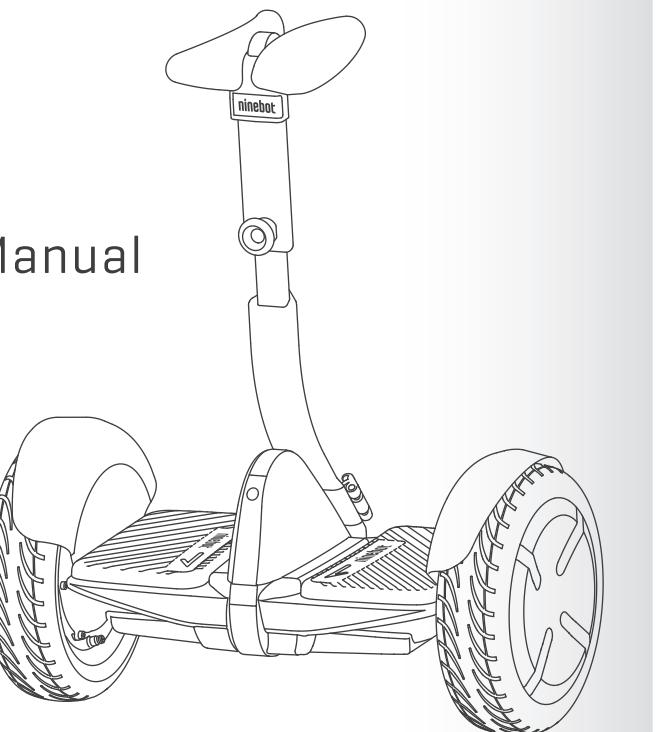
ninebot™ miniPRO

Quick Start Manual

九号 迷你

Version: V1.1.1

Ninebot Inc.



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About this manual

Thanks for choosing Ninebot™ Personal Transportation Robot. This manual relates to the instructions for Ninebot™ Mini series which may help you to:

- Practice safely starting from scratch, grasp basic operation steps, riding methods of Mini gradually.
- Get familiar with the safe riding methods and the riding techniques that must be followed so as to gain safe and pleasant riding experiences.
- Understand the structures and operation modes of Mini as well as methods for its regular maintenance. Enjoy the Ninebot to the fullest in a safe manner.

For more information, please visit www.ninebot.com. You can also scan two-dimension code on the cover of this manual, subscribing official microblog and wechat public account of Ninebot.

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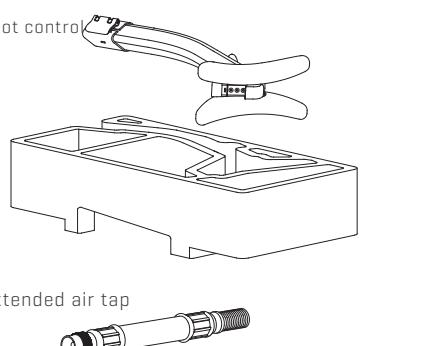
Ninebot Inc. is the owner of various patents relating to Ninebot personal transportation robot, and some other patents pending. This manual is prepared by Ninebot Inc. who shall reserve all its copyrights. No institute or individual shall copy or disseminate this manual as a whole or in part, or take use of the aforesaid patents without the consent of Ninebot Inc. in writing.

We have tried as much as possible to include the description and instruction for all the functions of Ninebot at the time of printing, but there may still be discrepancies with the Ninebot that you have bought because of improvement and change in design of functions. Please use iOS or Android device, like smartphone or pad to scan two-dimension code of this page, visit www.ninebot.com and enter "support & service" channel to download and check the latest electronic user manual for Ninebot. Or scan another two-dimension code and download Ninebot App using on ISO or Android system, read latest electronic version of manual. Please note that there are various Ninebot models with different functions, and some of the functions mentioned herein may not be achieved by your Ninebot. Ninebot Inc. shall reserve the right to explain any deviation of the actual products from those described in the manual in terms of color and appearance.

2. Assemble Mini

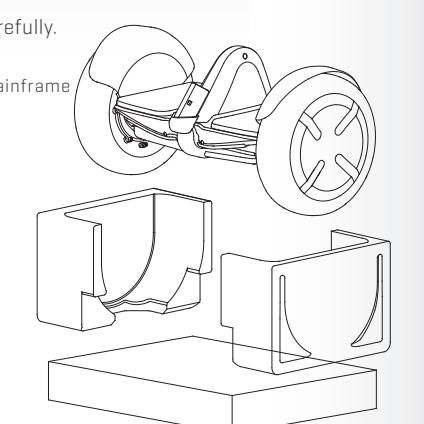
2.1 Check of articles in the package

After unpacking, take out foot control and mainframe carefully.

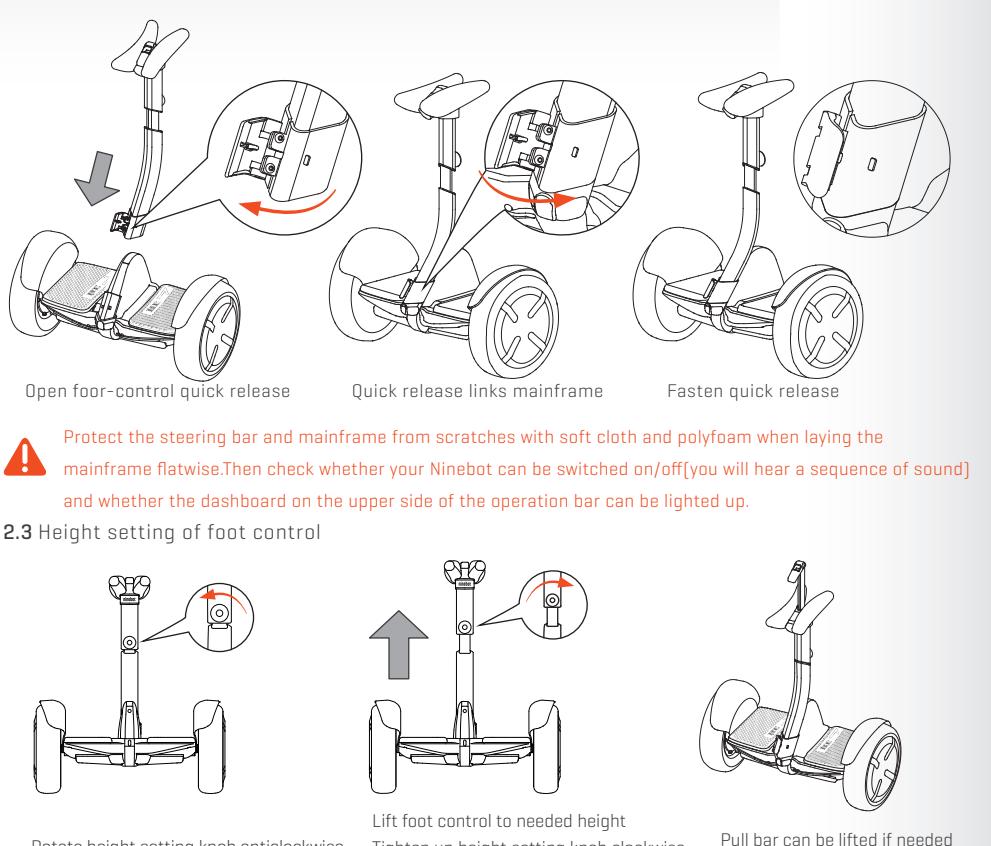


2.2 Assemble Mainframe

After taking out foot control and mainframe, please assemble as follows:



2.3 Height setting of foot control



When take out the mainframe, please check whether the articles included in the package are as above, and contact your reseller or call service hotline 400-607-0001 for assistance immediately in case of absence of any.

You can assemble your new Ninebot by the following steps after confirming that all the parts are complete and in good condition.

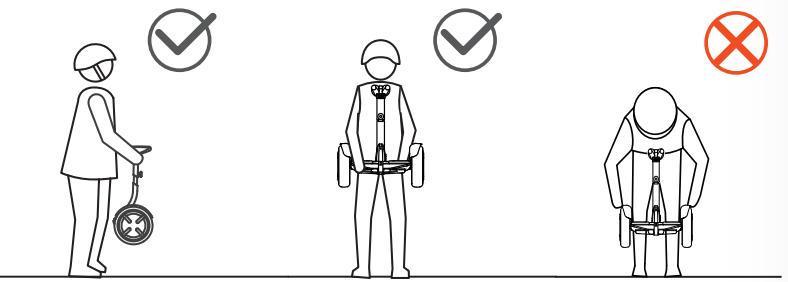
Remember to switch off the power of Mini and unplug the charging cable before handling and mounting of any accessory or cleaning of the mainframe.

Notice

- Please read and reserve this manual carefully. Do not use product arbitrarily before understanding performance detailedly.
- Respect the pedestrians' right of using road without scaring them. When you are behind someone, remind him and pass him by the left side with decelerating speed; and when you are in front of someone, keep at the right side with decelerating speed.
- Please wear safety helmet (bicycle helmet or roller skating helmet) to avoid severe head injury when falling; Knee, elbow and wrist protectors are recommended to lower probability of accidents and injury.
- Do not lend Ninebot™ Mini to anyone who cannot control it to avoid damage. Please be responsible for your friends' safety before giving Ninebot™ Mini to them; Safe riding instruction video can be found in Ninebot App for your teaching and watching with your friends.
- Form good riding manner with concentrated attention and without making any prompt accelerating start or any prompt decelerating braking. Achieve civilized riding without colliding with the persons or objects around.
- Scheduled maintenance is basically unnecessary for your Mini; Please conduct basic check to Mini before every riding. If finding abnormalities like obvious loose parts, obvious reduced battery life, slowly flat tire or excessive wear, abnormal sound or malfunction of steering, please stop immediately and call service hotline 400-607-0001 for assistance. Or visit Ninebot App, consult online support staff.

Warning!

- Get off Mini and charge it for safety in the case of low power, successive warning and limit speed. If keeping riding forcibly in low battery, danger may be caused by decline of motor and shorten battery life.
- If Mini is starting up and in autobalance mode during transportation, power output would be cut off automatically when tires are hung to protect you; balance mode would be recovered automatically when placing Mini to the ground. Do not lift the Ninebot by the fender, because your finger may be clipped between the wheel and the fender or damage fender. Please do as follows:



- Please check before every riding, do not ride if there are any looseness, damage or tire pressure lacking. Use Ninebot App to connect with Mini and check if mainframe buzzing alarms continuously after starting or ask support staff for help. Do not ride before removal of fault.
- Please be sure the power is off when dismounting battery pack or rinse the mainframe, or you will get electric shock and cause severe damage, or lead to internal short and fire.
- Understand and comply with local traffic rules. Do not use it in any place that is not allowed access by the laws of the relevant country/region or by the related management units. Do not ride it on the motorway in any area. It is a very dangerous kind of riding behaviors which may cause severe injury or even death.

1. Introduction to Mini

Ninebot™ Mini Personal Transportation Robot is a new form of electrical balancing vehicle with intelligence and robot function. The rider can stand on the robot to operate it by moving his/her body. Ninebot boasts the following features:

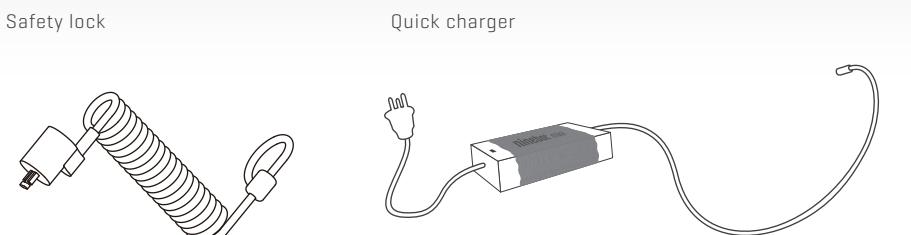
1. Being eudiplearal, the wheels turn with zero radius, making the robot moving more flexibly. Apply to short-distance transportation, for its excellent maneuvering characteristic, riding Ninebot is more like walking than driving a vehicle.
2. Having small volume of mainframe, so it has access to most of the places where walking is possible, including paths, sidewalks, corridors, rooms and lifts/elevators.
3. Portable mainframe can be easily placed in trunk or other smaller storing space.
4. During riding, the rider controls the robot with his/her body posture instead of an accelerator or a brake, thus making it comfortable in riding and sensitive in reaction.

1.1 Model of Ninebot Mini Series

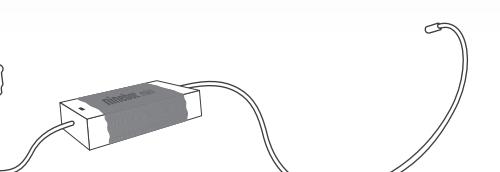


3. Accessory[Purchase on selection]

Safety lock



Quick charger



4. Safe Riding Mini

Apart from an entertainment robot, Ninebot is also a transportation vehicle which may have the risks similar to those of all other commuting tools. However, if you follow the safe riding instruction in this manual, it may maximize the safety of you yourself and others. By so doing, it will not cause heavy injury to you even if unrecoverable faults happen to Ninebot or something unexpected happens to your body.

There is one thing you should remember. Once you ride Mini on road or other public occasions, although you ride Ninebot on the road or in a public occasion in compliance with the Guide for Safe Riding, you may be subject to the risks resulted from improper driving or operation by other people or of other transportation means. It is just as you may be injured by other transportation means when you are walking or riding a bike. Like all vehicles, faster speed causes longer brake stopping distance. Emergency brake on smooth earth may lead to wheelslip, losing balance and even falling. It's significant to be cautious and keep a reasonable and safe distance with other people and transportation means during riding. Keep cautious and slow before entering unfamiliar area.

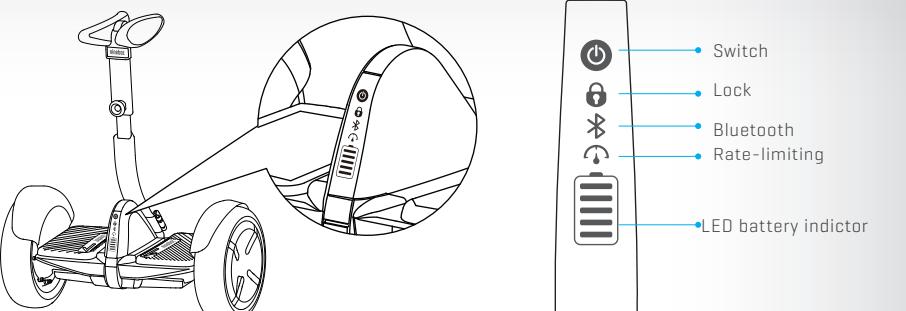
Note: Basic status needs to be checked before every riding, like if there is any loosening, falling or damage. If continuous abnormal sound or alarms of vehicle occurring during riding, please slow down and get off immediately to check the tire pressure and if there are any obvious loose parts, install Ninebot App with smartphone and check safety status of Mini.

THIS CHAPTER IS VERY IMPORTANT. PLEASE READ CAREFULLY AND UNDERSTAND ALL THE INSTRUCTIONS. PLEASE STRICTLY COMPLY WITH SAFETY REQUIREMENTS FOR RIDERS OF THIS MANUAL IN COUNTRIES AND AREAS WITHOUT LAWS AND REGULATIONS OF SELF-BALANCING ELECTRIC VEHICLE LIKE CHINA. WE WILL NOT BE RESPONSIBLE FOR ANY PROPERTY LOSS, CASUALTIES, ACCIDENTS, LEGAL DISPUTES CAUSED BY VIOLATION OF THE SAFETY INSTRUCTIONS ON CHAPTER.

5. Learn to ride
(Do not touch foot control with your shank or knees when you get in, in case of rapid rotation or forwarding of mainframe may cause damage.)



8. Icons on the dashboard

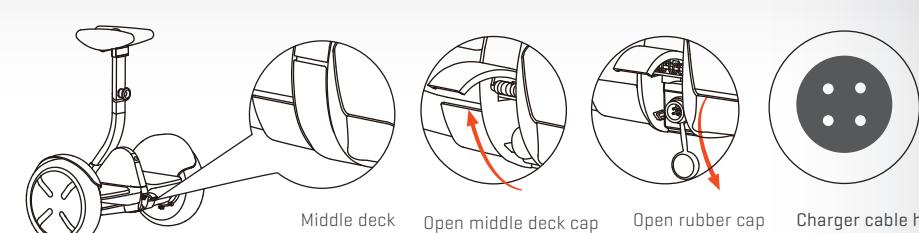


	Switch	Turn power on or off. Mini will automatically shut off if not used in 10 minutes after starting or mainframe is put down over 5 seconds.
	Lock	After starting lock mode with APP, mainframe will shake fiercely and buzzing alarm if anyone moves it. User's smartphone will vibration alarm if Ninebot App operates on user's smartphone meanwhile.
	Bluetooth	Flicker of Bluetooth icon means Bluetooth is opened but not connect to smartphone; Bluetooth icon normally on means Ninebot App has connected with Mini.
	Rate-limiting	Mini will be restricted to low speed when rate-limiting icon is on. Foot rest will raise when accelerate. Default speed of rate-limiting mode is 7km/h and can be relieved or adjusted by App.
	LED battery indicator	Every power grid means 20% dumb energy. Please stop and charge immediately if power is totally empty and flicker. You can see more accurate dumb energy and estimated riding mileage by App, when power is below 30%, Mini will decelerate gradually when power is below 10%, speed will be limited to 7km/h.

6. Warning



9. Application method of battery charger



10. Daily maintenance

You can use a soft cloth (one used for wiping your glasses) dipped with small amount of water to wipe the mainframe of Ninebot to remove dirt on the surface of mainframe. The dirt that is hard to wipe out on the plastic surface can be scrubbed with toothbrush after coating it with toothpaste, and then clean it with wet cloth. Do not wash Ninebot with alcohol, gas, diesel, acetone or other corrosive and volatile chemical solvent. These substances may damage the appearance and internal structure of Ninebot. Scratches on plastic parts of vehicle can be polished by abrasive paper or other abrasive substances.

Please dry Ninebot in the room and place it in a cool place. Do not store it in the open air for a long time. Exposure to sunshine and hot/cold outdoor environment will accelerate the aging of the appearance. Mini possesses water resistant function and can be used in light rain, but spray cleaning of pressure water gun is forbidden.

Hint: When cleaning Ninebot, make sure that Ninebot is powered off, the charging cable is unplugged out and the rubber cap on the charging port is tightly sealed. Or you may suffer electric shock or Ninebot may go into trouble.

Maintenance of battery pack

Do not place battery in high-temperature or low-temperature environment which is over 50°C or below -20°C. Do not throw battery pack into fire. Other items for attention in maintenance of battery refer to nameplate of battery pack which is below vehicle.

Battery of Mini can be used for riding over 20,000 km and still keeps excellent performance with great maintenance. Please try to use along with charge, do not exhaust all the power in the battery and then charge it in daily use. In addition, when using in high-temperature summer, battery pack can play high distance mileage and performance; and when using in environment below 0°C, endurance and performance of battery would decline. Typically, when temperature is -20°C, distance mileage may be half of normal temperature 25°C. Distance mileage of battery will recover when temperature rises.

Hint: Typically, the fully charged battery, if mounted on the Ninebot Mini, will be exhausted within 120 to 180 days in the stand-by mode; And a low-power battery, if mounted on the Ninebot Mini, will be exhausted within 30 to 60 days in the stand-by mode. Remember to charge the battery after each riding. Or over draining of power may cause un-recoverable damage to the battery. Intelligent chips inside battery shall record charge-discharge condition of battery, damage causing by long-time discharge will not be covered under warranty. [Non-specialized person are forbidden to dismount battery pack randomly]

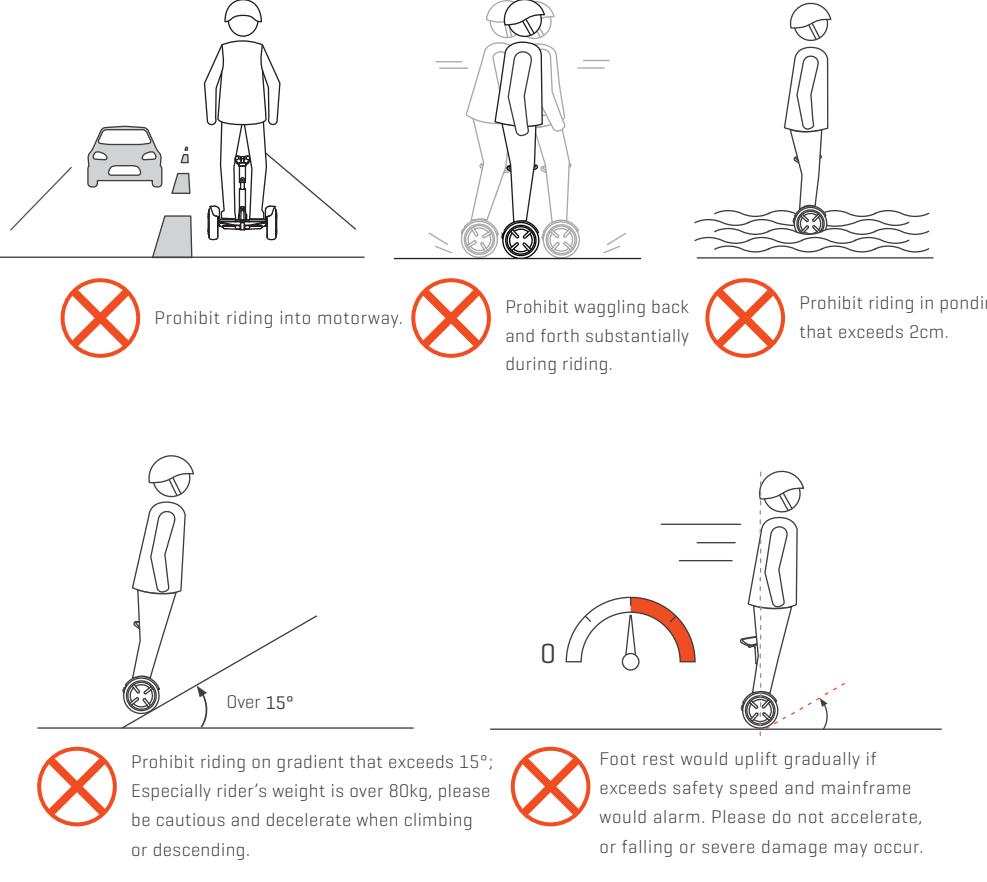
11. Specifications

Data and parameter labelled * differ with different models. No further notice if any alteration.

Performance index	Item	Ninebot Mini-240	Ninebot Mini-320
Size	LxW [mm]	262x546	
	Mainframe height[1] [mm]	611 ~ 866	
Weight	Maximum load [kg]	85	100
	Net weight[kg]	About 12.5	About 12.5
	Maximum speed[km/h]	About 17	About 20
	Typical endurance[2] [km]	About 20	About 28
Major parameter of mainframe	Maximum gradeability	About 15°	
	Beginner mode	Be relieved after 2-km accumulative riding.	
	Applicable terrain	Harden pavement, flat dirt pavement, ramp that is below 15°, stair that is shorter than 1cm, channel that is narrower than 3cm.	
Parameter of battery pack	Nominal voltage[VDC]	55.5	
	Max. charging voltage [VDC]	63	
	Nominal capacity [Wh]	240	320
	Intelligent BMS	Break automatically under status like balance/over charge/undervoltage/temperature alarm. Connect App to test battery status.	
Parameter of electromotor	Nominal power[W]	300x2	400x2
	Maximum power[W]	900x2	1200x2
	Safety certification	CCC, CE	
Parameter of standard charger	Nominal power[W]	70	120
	Nominal input voltage[VAC]	100~240VAC/50~60Hz	
	Nominal output voltage[VDC]	About 63	
	Nominal current[A]	About 1.1	About 1.9
	Safety certification	CCC,CB,CE,FCC,PSE,UL	
	Charging time[h]	About 4.5	About 3.5

[1] Mainframe height: refer to distance from ground to the highest end of mainframe. Since height of foot control is adjustable, mainframe height refers to height range from the lowest and highest point of adjusted foot control.

[2] Typical endurance refers to: test under riding in full power, 70kg load, 25°C environmental temperature, 15km/h average speed on flat pavement.



12. After-sales and Warranty

You can contact us by the following ways if you want to consult the issues relating to riding, maintenance and safety, or report the faults of your product to the manufacturer in the process of using Ninebot; we are at your service.

There are the two-dimension codes for the official Wechat account and official microblog of Ninebot, you can subscribe by scanning them with your phone. We will provide value-base gifts and colorful activities irregularly for users who subscribe the official Wechat account and pay attention to the latest trends and activities of Ninebot, stay tuned!

Ninebot Inc.

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Tel: +86-010-84828002 Fax: +86-010-84828002-800
Toll Free (China only): 400-607-0001[consultation, purchase and after-sales service]
E-mail: info@ninebot.com (Consultation) Service@ninebot.com (After-sales service)

Address of Manufacturer:

Ninebot [Changzhou] Tech Co., Ltd. 16F-17F, 3rd Bldg., 18 Changwu Road, Wujin Disct, Changzhou, Jiangsu, China
Ninebot [Tianjin] Tech Co., Ltd. 11 Tianrui Rd. Auto Industrial Park,Wuqing dist., Tianjin, China

Product Standard: Q/320412NCZ001-2015

Other safety certifications we have passed:

UN38.3 Cell and battery pack have passed UN38.3 test and certification

2014/30/EU EN 61000-6-3:2007+A1:2011, EN 60950-1:2006+A12:2011

2014/35/EU EN 60204-1:2006/AC:2010, EN 60950-1:2006/AC:2011, EN 60034-1:2010/AC:2010

2006/42/EC EN ISO 12100:2010, EN ISO 13849-1:2008/AC:2009, EN 62061:2005/AC:2010

EMC ETSI EN 301 489-1 V1.9.2 (2011-09); ETSI EN 301 489-17 V2.2.1 (2012-09)

RF ETSI EN 300 328 V1.8.1 (2012-06)

Safety EN 60950-1: 2006+A11: 2009+A1: 2010+A12: 2011+A2: 2013

SAR EN 62479: 2010

FCC PART15C FCC Rules Part15.247

REACH 2012/19/EU

Wechat Service Number Official Microblog

Official Website



QQ Group of Ninebot Club: 389793470
www.ninebot.cn

IC Radiation Exposure Statement for Canada

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number, or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Le présent émetteur radio (identifier le dispositif par son numéro de certification ou son numéro de modèle s'il fait partie du matériel de catégorie I) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.

IMPORTANT NOTE:

Radiation Exposure Statement:

This equipment complies with “Industry Canada RSS-102 for radiation exposure limits set forth for an uncontrolled environment”.

This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

Federal Communications Commission (FCC) Interference Statement

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 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.

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.

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.

RF exposure warning

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.