

KANGSTERS



WHEELY-HUB

User Manual

Introduction

Thank you for purchasing WHEELY-HUB. This product detects the movements of wheelchair wheels, allowing users to enjoy various features of Wheely-X. Please read this manual thoroughly before using the device to ensure safe, proper use.

- Descriptions are based on the device’s default settings.
- Apps related to the content may not work properly depending on the device’s specifications and the environment in which it is used.
- Kangsters is not liable for performance issues caused by apps supplied by providers other than Kangsters.
- Kangsters is not liable for performance issues or incompatibilities caused by edited registry settings or modified operating system software. Attempting to customize the operating system may cause the device or apps to work improperly.
- Software, sound sources, wallpapers, images, and other media provided with this device are licensed for limited use. Extracting and using these materials for commercial or other purposes is an infringement of copyright laws. Users are entirely responsible for illegal use of media
- Modifying the device’s operating system or installing apps from unofficial sources may result in device malfunctions and data corruption or loss. These actions are violations of your Kangsters license agreement and will void your warranty.

Note: The terms 'WHEELY-HUB,' 'WHEELY-HUB sensor,' and 'sensor' are used interchangeably to refer to the WHEELY-HUB.

Instructional Icons

Icon	Meaning
 Danger	This icon indicates a potential risk of serious injury or death.
 Warning	This icon indicates a potential risk of serious injury or death in some cases.
 Caution	This icon indicates a risk that may result in injury or damage to major parts and other parts.

Danger

- Keep the product out of reach of infants and children to prevent potential dangers. Swallowing the device or its parts can cause serious injuries.
- Do not replace the battery or touch the connector with wet hands. This may damage the product or cause overheating, electric shocks, or fire.

Warning

- Do not use the product in wet locations or pour water on it. This may damage the product, lead to malfunction, or cause electrical shocks.
- Do not exceed the recommended operating temperature. Liquid inside the battery may leak or overheat, significantly increasing the risk of fire.
- Keep the product away from heat sources and flammable materials. The overheating or fire can be caused by a short circuit or a fault.
- When charging the device with an external battery pack or outlet, ensure it is not placed on a wet surface or near water. This can cause electric shock, overheating, and pose a fire risk.
- Use only a 5V 1A charger. Using an incorrect charger may cause overheating and increase the risk of fire.

Caution

- Considerable impact or dropping of the product can damage it and cause unexpected malfunctions.
- Do not apply excessive force or pressure to the device.
- Do not put excessive pressure on the WHEELY-HUB charging port or insert metal into it. This may cause damage to the product.
- Do not disassemble or modify WHEELY-HUB. Taking apart any part of the product may cause damage.

FCC Information

This device complies with Article 15 of the FCC regulations. Operation is subject to the following two conditions:

1. This device does not cause harmful interference.
2. This device accepts any interference received, including interference that may cause undesired operation.

FCC User Notification

This device 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 restrictions are designed to provide an appropriate level of protection from harmful interference that may occur if installed in residential environments.

The device generates, uses, and emits radio frequency energy. If not installed and used according to the instructions, it may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment causes harmful interference, the user is recommended to seek technical assistance from a vendor or a skilled technician to correct the interference.

Changes or modifications to the equipment not expressly approved by the party responsible for compliance may invalidate the user's right to operate the equipment.

Antennas used in this device must be installed to provide a minimum distance of 20 cm from all persons and must not be placed or operated in conjunction with any other antenna or transmitter.

Maintenance

- Regular maintenance is essential to ensure the product remains clean and operational.
- Carefully wipe off dust with a damp cloth.
- Clean the external terminals with a dry cotton swab or cloth.
- If the device gets wet, wipe it with a soft cloth. If moisture enters the USB connector or the inside of the product, stop using it immediately and contact the customer service center.
- Please turn off the power button if the product is not in use or will be stored for an extended period.

Problem Solving

Problem	Cause	Possible Solution
Sensor inoperative	Battery drain	Check the remaining battery and charge the product.
	Strong radio wave interference	Ensure nearby electronic devices emitting high output are properly positioned to avoid radio wave interference.
H/W	Product malfunction	If you encounter any issues, refrain from further use of the product and promptly reach out to our customer service team for assistance.

Quality Assurance

We conduct quality checks twice to ensure the product can be used safely. If the product you purchased does not work properly, please contact us or the store where you made the purchase. If there is a manufacturing defect, we will repair or replace it free of charge. Otherwise, it will be repaired at a reasonable price. However, repair or replacement is not possible in the following cases:

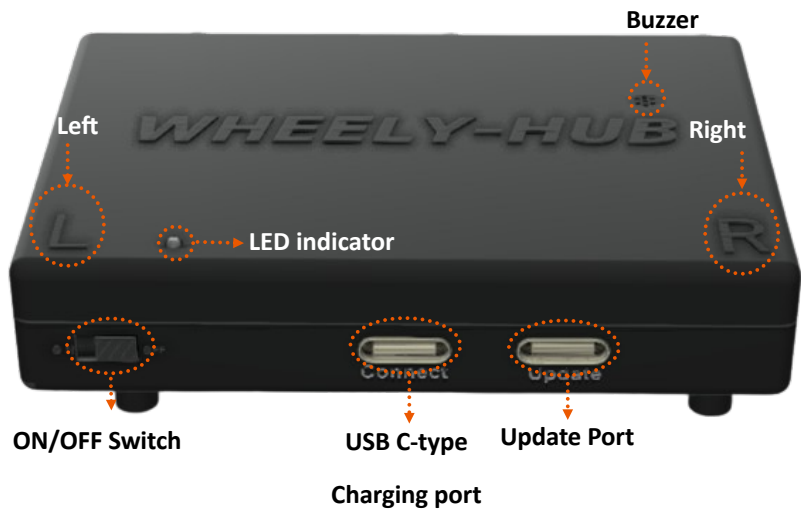
1. Damage due to aging of parts beyond the product's life cycle.
2. Malfunction due to modification or poor handling.
3. Malfunction due to improper handling as described in the manual.
4. Malfunction due to unexpected accidents.
5. Malfunction due to contamination or rust.
6. Malfunction due to improper disassembly.
7. Malfunction due to damage caused by significant impact, such as dropping.
8. Malfunction due to improper replacement of parts or abrasion.
9. Malfunction due to compatibility issues with third-party products.

Product Specification



Product Name / Model name	Wheely HUB / WH-HUB24
Size (width/length/height)	124/85/40 (mm)
Product Weight	185 g
Bluetooth Version	Bluetooth 5.0
Usage Time	Approximately 480 hours
Battery Capacity	Approximately 4,900mA / 3.6V / 17.64Wh
Charging Type	USB-C
Charging Time	5-6hour (based on 5V 1A charger)
Input Voltage	5VDC 1A
Power Saving Mode Conditions	No input signal for 10 minutes
Battery Charge Notification Criteria	Approximately remaining battery level of 33% (Indicator light, buzzer sound)

Description of Parts



Sensor Mounting



Please insert the sensor legs into the top holes of the assembled wheelchair treadmill, positioning the WHEELY-HUB to face the ramps, as illustrated in the image on the left.

Product Charging



Connect a C-type charger with a rated output of 5V 1A into the charging port of the WHEELY-HUB.

⚠ Caution

If the charging cable or port is damaged, charging may not occur as it should be.

Battery Charge LED Indicator



Charging required



Charging



Charging completed

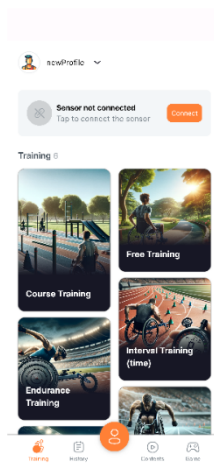
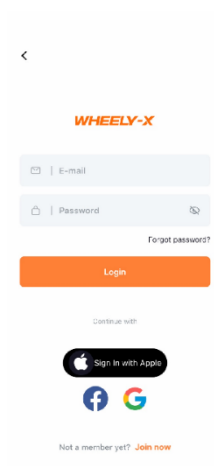
- If the battery level is 33% or lower and WHEELY-HUB needs charging, a blue LED will illuminate at the top of the device accompanied by a buzzing sound.
- Upon successful connection of a proper 5V 1A USB type C charger to WHEELY-HUB, the LED will switch to red during the charging process.
- Once the battery reaches full charge, the LED on WHEELY-HUB will change to green.

⚠ Caution:

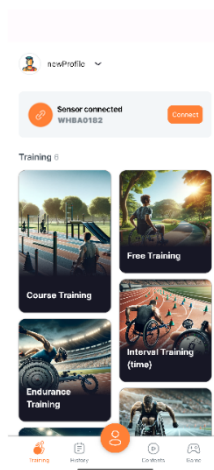
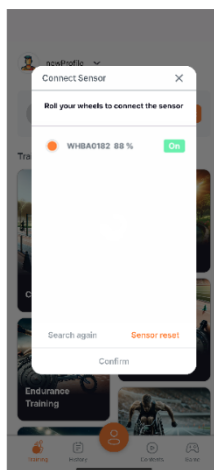
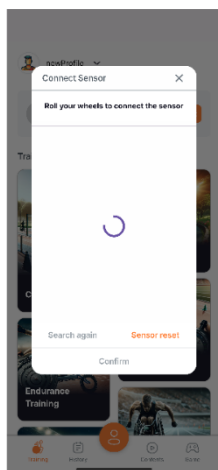
- If the sensor needs charging, it's recommended to charge the battery immediately to prevent discharge.
- Avoid using fast chargers (5V 2A, 10W or higher) as they are prohibited.

How to connect Wheely-X app via Bluetooth:

1. Install the Wheely-X app from the Google Play Store or the iOS App Store. (Apps are supported on both smartphones and tablets.)
2. After logging in to the Wheely-X application, press the 'Connect' button.
3. Select the name of the searchable sensor. (The WHEELY-HUB sensor name starts with WHB and consists of one alphabetical digit from A to Z and four digits from 0001 to 9999)
4. Upon completion of the connection between the application and the sensor, it will automatically switch to the successfully connected screen.



5. If connection is not successful, turn it off and on again, and then attempt to connect the sensor again.



How to connect Wheely-X app via wired communication (using a C type cable):

Connect the WHEELY-HUB to the PC using a USB type C cable, ensuring it's plugged into the charging port, and switch it on. After 40 seconds, the connection with its serial communication will begin.

On the PC, navigate to Device Manager → Ports (COM & LPT) and verify if the device is listed as USB-SERIAL CH340

