

Wheely-X User Manual



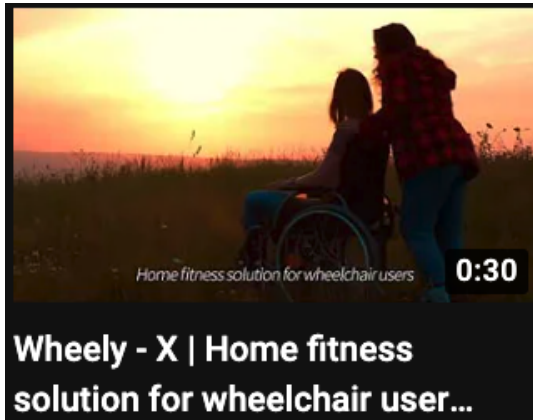
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Smart Fitness Solution for Wheelchair Users "WHEELY-X"



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Introduction



Please, scan the QR

Product characteristics

- Just small space of 5 square meter to enjoy fitness.
- Optimal 8° slope for easy entry and stability
 - **Ease of entry:** Inclination angle is designed to be at lowest, that can fit high level disability.
 - **Stability:** The rollers and slope are carefully designed for stability and safety.
Hundreds of tests conducted to develop slopes with optimal angles and lengths.

The world's first smart wheelchair fitness solution that has variety of fitness contents.

- Enjoy sports with contents such as VOD, games, training mode etc
- Building a data platform that analyzes fitness data.
- Personalized fitness solution that recommends adapted exercise according to your body conditions and physical level and pattern.

Precautions for handling

Please be informed by the person in charge of handling, safety, and maintenance precautions in detail and be familiar with them.

1. Do not apply excessive pressure or excessive impact to the product. The maximum allowable load of the product is 150kg/330lb including a wheelchair.
2. Do not use electric wheelchairs and electric scooters on Wheely-X.
3. If wheelchair user is severe in disability, be careful not to use Wheely-X alone. In particular, wheelchair users who have difficulty entering the rear of the Wheely-X ramp must use it with their guardians.
4. Do not arbitrarily disassemble the assembled product without the permission and consent of the manufacturer.
5. The weight of this product is 27kg/59lb including slope. When purchasing, please pay attention to safety if you move the product randomly from the location installed by the installer.
6. Make sure the product is fully assembled before use. Never attach any attachment not recommended by the manufacturer to the product. It causes a safety accident.
7. If the tire pressure in the wheelchair is low (less than 80psi) or if the balance of the wheelchair is broken before exercise, a movement of wheelchair may occur on the roller and interfere with the exercise. Make sure to adjust the condition of your wheelchair and exercise before using Wheely-X.
8. Please install Wheely-X on flat ground without slope or curvature. If used after installation at an inclined place, there may be a risk of falling when moving the roller or entering the ramp.
9. When cleaning, do not use organic detergents such as solvents, waxes, and sina, and wipe with a soft dry cloth.
10. Early in the product launch, the brakes are strongly engaged with the frame, which may be a little difficult to operate in initial use. Please be advised that the brake coupling may become loose due to continuous use of the product, but there is no structural safety problem.

Precautions for Safety precaution

1. If you feel pain or shortness of breath during exercise, stop exercising immediately and consult your doctor.
2. Exercise at a speed that suits your athletic ability, and never exercise excessively.
3. After the roller has come to a complete stop, engage the brakes correctly and disconnect from the product. If you get off right after a long exercise, dizziness may occur, so it is recommended to take a break on Wheely-X for a while before getting off.
4. Be sure to consult a doctor or fitness expert about various changes that occur while exercising. In particular, if you have disease such as high blood pressure or heart disease or other disease, it is not recommended to continue exercising while ignoring changes in your body.

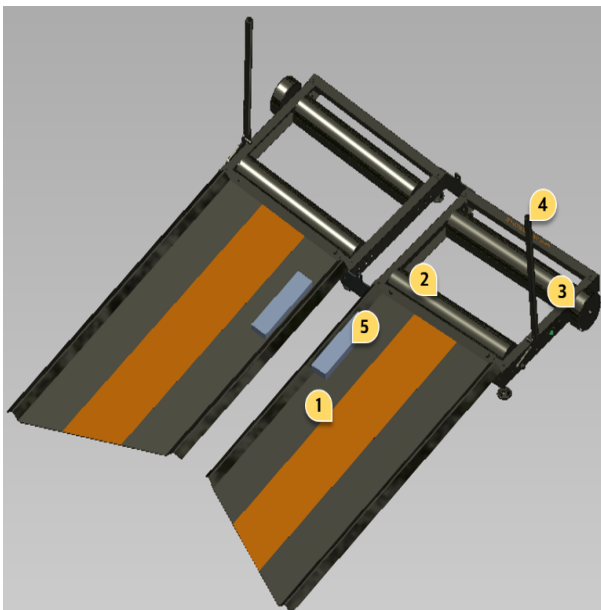
Maintenance Precautions

1. It is recommended that you receive help from your guardian or installation engineer for maintenance is recommended maintenance.
2. **Attaching and detaching ramps**
 - Insert the protruding pin of the Wheely-X body into the end hole of the ramp.
3. **How to connect the Wheely-X body frames**
 - Place the left and right body of the rollers on the ground and attach them by combining the end hole of the Wheely-X with the protruding pin of the Wheely-X body.
4. **How to detach the brake**
 - Make sure that the anti-drill brakes are engaged before removing or attaching the brakes. Remove the brake by turning it counterclockwise when detaching it, and rotate it clockwise when attaching it to combine the brakes.
5. **How to attach and detach the weights**
 - If the weights is loosened or if you want to detach the weights, use the hexagonal T-wrench provided to rotate it counterclockwise when detaching or clockwise when attaching it.

Configuration

Please get guidance of product configuration in detail from the person in charge and check if it is damaged or defective.

Treadmill



Width × Length × Height (cm/in)

- 109/42 × 132/51 × 52/20
- Carton 107/42 × 482/19 × 21/8

Ramp Size (Width × Length) / angle

- 900mm/35in × 460mm/18in /
8° ±0.2°

Wheely• × Camber angle

- 2.5° ±0.3°

Weight

- 27kg / 59lb

Maximum speed

- 15km/h

Partial Names

- ① Ramp
- ② Roller
- ③ Weights
- ④ Brake System
- ⑤ Anti-Slip block

Safety

- First consider the safety of the user.
- Tested safe for fall and breakaway.

Convenience

- Optimal ramp for safety and convenience.
- Easy to fold for effective storage and movement.

Sensor



Model : B Shark-M

Battery : CR1632 x 1ea

Battery life : 600 hours

- Use it for an average of 6 months (if you exercise 4 hours a week)

Weight : 11g

Width × Length × Height (cm/in)

- 4/1.6 × 2.5/1 × 1.2/0.5

Operating temperature : -20°C ~ 60°C

Communication specification

- Bluetooth 5.0, ANT+

Wheely-X App



	Minimum Spec	Recommended Spec
OS	Android9 / iOS11	Android11 / iOS13
Processors	Octa Core	Octa Core
RAM	2GB	4GB
Bluetooth	Bluetooth 4.1	Bluetooth 5.0

Wheely-X XR Game



	Minimum Spec	Recommended Spec
OS	Android11 / iOS13	Android12 / iOS14
Processors	Octa Core	Octa Core
RAM	4GB	6GB
Bluetooth	Bluetooth 4.1	Bluetooth 5.0

Safety

Please be guided in detail by the person in charge and be aware of the safety information. To prevent accidents, please check safety matters from time to time before and after exercising.

- 1. Check the tire pressure in the wheelchair before exercising. If the wheelchair tire is not at the proper pressure (lower than 80psi), the friction force between the roller and the wheelchair tire may increase causing wheel slip (the wheelchair moves in one direction during exercise). For safety, please keep the pressure of both tires in the wheelchair at 80psi before exercising. In addition, if the tire is below the proper amount of air pressure, the rotationality of the Wheely-X is reduced.**
 - Excessive left-right and wheelchair balance of wheelchair pressure causes wheel slip(left-right tilt) during c movement. e.g. If the camber angle of the Wheely-X is set excessively from 10 to 13 degrees, the wheelchair will climb up.
 - In order to solve Wheelchair slip, we installed a fall prevention block that controls the auxiliary wheel that gives direction to the ramp, eliminating the risk of falling due to wheel slip.
 - Wheelchair air pressure or balance imbalance or body seat. Left if the balance of right force is wrong. Right mobility (rolling sensitivity) may look different, but there is no problem with mobility.
- 2. To improve the mobility of the Wheely-X, a weight of 2 kg is installed on the outside of the rear roller. There is a possibility that the weight and roller shaft engagement will be loosened due to the vibration that occurs during use of the Wheely-X. Using the hexagonal T-wrench in the package provided, find the joint of the weight, tighten it clockwise, and use Wheely-X to perform stable exercises even with more intense exercises.**
 - As a result of testing by weights in previous research and development, it was determined that the load control device of simple weight had no effect on mobility, so only 2kg/4.4lb weights was applied.
- 3. Before using Wheely-X, prepare for accidents such as falls due to movement of center of gravity during exercise, move your pelvis close to the inside of the wheelchair and exercise in a regular posture.**
- 4. Always check the brake before and after using Wheely-X. When fastening the brake, make sure that the rectangular part of the roller shaft and the 4 sided angle of the brake are engaged before fastening the wheelchair wheel. Roll back with a simple motion to check the tightness before getting off.**
 - Brake safety means that once engaged brakes are not released with a force of 150kg/330lb, and the purpose of the brakes is a roller fastener for Wheely-X exercise boarding and disembarking.
 - Brake is a roller fastener developed for safety and for safety after tightening rather than simplifying tightening.
- 5. When using a ramp, position both wheels of the wheelchair at the end of the ramp on the central guide line of the non-slip tape (orange) attached to the ramp, then roll the wheel slowly, with the center of gravity slightly forward before the final seating.**
 - With a focus on safety, exercise strength and rotationality vary depending on the distance between the two rollers, but the optimal distance between the rollers was applied.

Safety Check

1. The wheelchair pressure must be maintained between 80 and 90 psi.

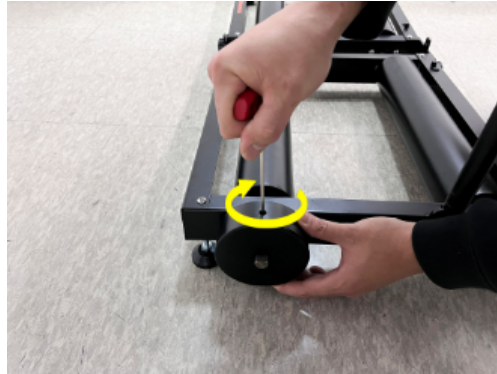


3. Did you wear gloves and seat belts before working out?



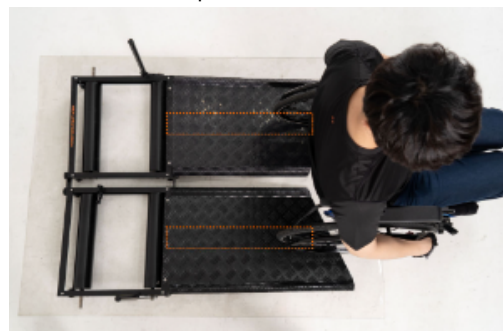
2. Are the weights tightly coupled?

- If the weights is loose, tighten the joint clockwise. (Use enclosed hexagonal T wrench)



4. When climbing a ramp, position the rear wheel of the wheelchair in the center of the ramp and gently rotate the wheel to slowly climb back.

- When going up and down the ramp to prevent falls, put the center of gravity on the upper body forward.
- Please release all the brakes on the front of the roller and perform the exercise.



5. Are the brakes correctly coupled?

- After finishing the exercise, before going down the ramp, make sure to lock the brakes and check the coupling.
- Make sure to remove the seat belt after safely coming down from Wheely-X.



- ! It is dangerous to use the brake incorrectly coupled. When climbing and lowering the ramp, make sure that the brakes are properly engaged.

How to use Wheely-X

- 1. Wheely-X's ramps are constructed at an angle and length that allows all wheelchair users to climb without burden.** For ease of climb, if you guess your position from a distance and then enter the rear of the ramp, you are more likely to climb somewhere different from the expected position, and in severe cases, you may be able to deviate from the ramp.
 - Therefore, position the wheelchair wheel at the center end of the ramp and gently rotate the wheel to enter the rear. Nevertheless, people who use it for the first time may be nervous and misallocate the force, causing the wheelchair to spin in the middle of the slope. Rather than going up too hard, it is recommended you go down the slope and go back in.
- 2. Wheely-X rollers spacing (front and rear rollers) on the Wheely-X has the optimal structure for various wheelchair movements.** However, depending on the personal adjustment of the wheelchair (such as the center of gravity setting), you may feel as if you are falling backwards when you enter the rear of the ramp and settle on the roller. Therefore, when the wheelchair lands at the highest point of the roller, it is recommended that the wheelchair lands smoothly on the Wheely-X by reducing the force it turns back.
- 3. After completing all of the above steps, finally release all brakes on the side of the roller before performing the exercise.**
- 4. After completing the exercise, combine the brakes first to get out of the Wheely-X.** If you are mistaken that the brake coupling surface is not visually checked, but only by hand, a safety accident may occur due to idling of the front roller, so make sure to visually check the brake coupling.
- 5. Wheely-X has a structure that prevents wheelchairs from being tilted forward for safety during exercise.** Therefore, to make it easier to get out of Wheely-X, please rotate the wheelchair wheel forward and move the upper body forward to add a shift in the center of gravity.

Exercise

1. Please stretch for at least 5 minutes before workout.



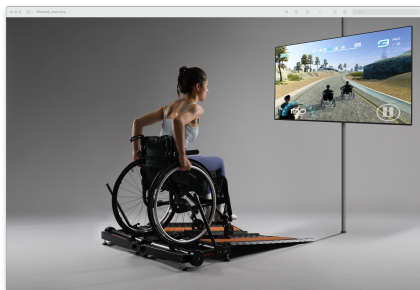
2. After seating on the Wheely-X roller, release the brakes on both sides.

- Push both bars back when releasing the brakes.



3. Please enjoy exercising with various contents!

- You can enjoy a variety of contents through the Wheely-X app and the game app.



4. Make sure to lock the brakes before you come down.

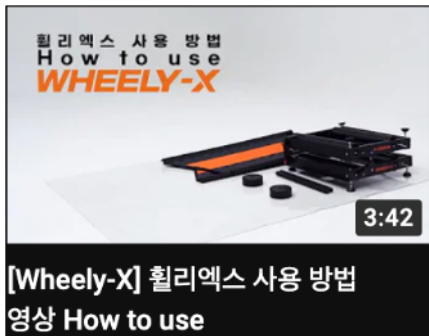
- Please check if the brakes are properly engaged.



! It is dangerous to use the brake incorrectly coupled. When climbing and lowering the ramp, make sure that the brakes are properly engaged.

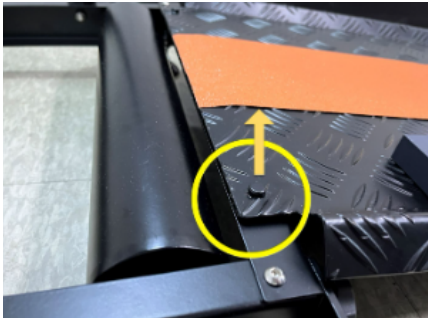
- ! Move the brake bar back and forth only! Moving from side to side causes failure.

Archive and Move



- Scan the QR
- Search for Kangsters on YouTube

1. Please check the ramp and lift it up to remove it.



3. Fold the roller while it's slightly loosened. Remove the sensor before folding to prevent damage.



2. Fold the roller

- Loosen the roller connection plate by slightly rotating the bolts in the front and back counterclockwise.



4. Store it conveniently.



Application Introduction

1.Trainer's Videos



- You can exercise effectively through professional trainer's video.

2. Games



- You can enjoy sustainable fitness through entertaining games.

3. Data Platform



- Smart sensors and applications record my data.
- Fitness duration, calories burn, and distance are measured while enjoying videos and games.
- The data is collected to provide adapted contents and programs for wheelchair users around the world.

Getting Started with the Wheely-X App

1. Install App

Please scan QR or search for Wheely-X in the App store

- Android



- IOS



2. Data Platform

Please register the serial number provided in the purchase of the product to unlock certain features in Wheely-X app.

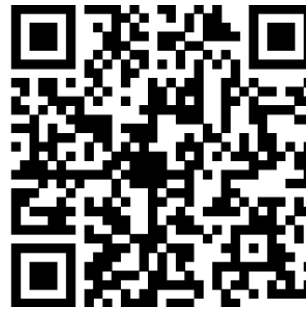
FAQ

When the sensor malfunctions, please check the following below.

1. Please make sure that the sensor is attached to the right position in Wheely-X.
2. It automatically turns on the sensors if you roll the wheelchair on the roller.(The sensor will turn off after a certain period of time to save power.)
3. If the above methods are not resolved, please click sensor initialization on the app screen and connect again.

4. Please check the FAQ link for further information.

- Scan on the right QR
- Go to <https://url.kr/4nx5cd>



- If you have any questions while using Wheely-X, please contact us through email or SNS.
- Please scan the QR or search for "Kangsters"



Instagram



Youtube

Warranty

- Manufacturing defects or functional defects that occur naturally in normal use will be repaired and replaced by headquarter of Kangsters located in Korea if not possible.
- One year warranty is free of charge.

Paid service

1. If the warranty period of the product has expired
2. In the event of a consumer's intention or negligence
3. In the case of a product failure (defect) caused by a natural disaster
4. If you purchased and used it through a place other than our designated supplier
5. Failure not to follow the "caution" in the instruction manual
6. If the product is transferred or purchased second-hand, you must obtain an A/S through the agency if you purchase it from the agency.
 - * To receive an A/S through our A/S center, you must be registered as a customer in our system, or you must obtain a confirmation of the purchase date through the supplier.

Manufacturing and Sales Company

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