

# USER MANUAL – EN IN 12570 Windrunner Handy X3



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## Introductinon

X3 is the of-the-art means of transportation adopting aerospace attitude control theory, fuzzy software algorithm, and gyroscope system to maintain balance by leaning forward and backward. Riders can control vehicle to go forward, accelerate, decelerate, brake, etc. by leaning forward or backward. Also, turning on X3 is controlled by the presence of a handlebar and a vertically ascending shaft. The lateral movement of the handlebar will cause the differential or rotational speed on both wheels, e.g when the shaft is swung the left, the rotational speed on the handlebar will cause the differential or rotational speed on the right wheel will be faster than that on the left wheel, thus the unit will turn left. X3 is the greenest and lightest smart unicycle which can be easily carried into buses or subways, facilitating daily commute.



# INSTALATION

## **Check Packing Contents**

Open the packing box and carefully take out the handle bar and control shaft. Then take out the wheal assembly.



Given the weight of the wheel assembly, please heave it upward with care. Better find someone for necessary help. Please pay attention to your hand and the front and rear end of the wheel assembly, and avoid lifting it by the dirt covers, otherwise your fingers may be caught.

#### Preparation

Before installation, please find in the standard accessories a set of 2 hexagon wrenches. Please retain this tool kit, it is useful for maintenance and transportation of the unit, As metric standard tools, you may find replacement at home or in a hardware store. A pair of work gloves Is recommended to protect your hands from dirt and scratches.

#### Install the Handlebar and Control Shaft

Take out the handlebar and control shaft; insert the handlebar into the slot as shown below. Thein install the handlebar and shaft assembly onto the wheel assembly and fasten the fixing knob clockwise.



Unfasten the fixing knob before installing or removing the control shaft, vertically into the base on the wheel assembly and fasten the fixing knob. Make sure to install the control shaft as shown ticked above (line the inner hole with the outer hole). An overly tightened fixing knob will cause a fixed connection. On the other hand, a loosened fixing knob may cause dangerous detachment.

## Install the Battery Case

Take out 5 M6\*20 hexagon screws, fix them into the screw holes on the battery case with a 5mm hexagon wrench, and make sure the battery case and the base are firmly connected.



Lay flat the unit and install the battery case onto it, then fasten the screws.

Use a soft cloth or foam chunks to protect the unit against scratches when it's laid flat. Make sure the battery case is well connected and screws are fastened. Erect the unit vertically and try to power it on and off to check if the indication panel is working properly.

# SAFETY

There are risks of riding or driving any vehicle, X3 is no exception. Please make sure this manual is read through and fully understood before getting started, and be alert when riding.

Important Note:

- 1. Sharp acceleration or deceleration or speeding via overly leaning forward or backward are strictly forbidden. Do not accelerate when power level indicators show only one bar left, please recharge your X3 asap.
- 2. Do not ride X3 when risking any accidental falls. Safety goes fist.

# Attention:

- > Do wear helmet, gloves, elbow/knee pads or other necessary protection gears.
- > Do not ride X3 on packed roads or crowded streets with motorized vehicles.
- > Do not ride X3 on rough or bumpy surfaces, especially icy ones.
- > Do not ride X3 on slopes of over 15" gradient.
- > Do not allow children under 15 to ride X3.
- > Do not ride X3 in bleak winter conditions.
- Do not ride rainy day.
- > Please ride slowly on and off slopes.
- > Do not cross over the speed limit. This device doesnt keep balance and you can fall over.

## Other unpredictable risks may occur during usage, please ride with caution.

## X3 will not take responsibilities for any injuries caused by misuse of the product.

- Safety Guidelines and Riding Etiquettes
- Please learn and abide by local laws and regulations when riding X3. Be careful and considerate of others, and take precaution of accidents and collisions.
- Please ride at safe and proper speed and make sure your X3 in under control. Keep yourself a safe distance from pedestrians and vehicles and always be prepared to stop.
- Respect pedestrians and avoid startling pedestrians, especially children. When approaching from behind, announce yourself and slow down to walking speed when passing. Pass on the left whenever possible. When approaching a pedestrian from the front, stay to the right and slow down.
- Keep a safe distance from other X3 riders and always avert from obstacles. Unless there's ample space for other pedestrians, please do not ride side by side with fellow X3 players.
- Please avoid riding in poor light unless necessary, and make sure in this scenario you ride at slow, safe speed with care and geared with mounted driving lights if possible.
- Please relax your body when riding, bend your knees and elbows slightly and look straight forward.
- Riding backward can be dangerous. For emergency, ride slowly backward in necessary avoidance of obstacles.

Please lean forward slightly to accelerate instead of lunging forward suddenly- You my lose balance and get yourself hurt in aggressive acceleration It is the main cause of accidental falling overs.

ATTENTION: Don't ride more than the speed limit. If you exceed it, this device beeps. It is necessary to decrease your speed immediately. Otherwise this device stops automatically and you can fall down.

## Initiative Safety Measures

- 1. Please read through this manual and make sure it is fully understood.
- 2. Do not allow others try your X3, unless he/she has read through this manual.
- 3. Please do wear safely gears while riding X3. Make sure your helmet is comfortably fit and qualified for safety protection. Rides may wear glasses, elbow/knee pads according to their own experiences.
- 4. Please do not ride X3 when you are under the weather or affected by alcoholic/drugs and not able to follow the instructions on the manual.
- 5. Please stop riding immediately when X3 starts alerting for low battery or over speed. Charge your X3 in time to ensure safe and smooth usage.
- 6. Make sure power off X3 before moving it. Do not lift X3 on the wheel in case your fingers get caught between the tire and case.
- 7. Check your X3 carefully for any loosened or damaged parts everytime prior to usage and do not ride before proper troubleshooting.

Steering with your body leaning against the control shaft is very likely to cause accidents and injuries. Always make sure to keep one-first distance from the control shaft and the handle bar. Do not lean against the control shaft, this contributes to most of the accidents.

# Warned Scenarios



# **LEARNING TIPS**

# **Before Getting Started**

For first-timers, be sure to equip yourself with comfortable sportswear and sneakers. Warm up your body and keep your body agile. Considering the average human athletic skills, the height of pedal is set 10cm from ground only, which guarantees your safety in case of falling over. A Helmet, gloves, knee and ankle pads are also essential for first-timers. To start, please bring X3 to open space and watch out for obstructions and bumpy terrains.



# Learning Tips

Learning X3 is much easier than learning how to ride a bicycle. Most starters only need 3 minutes to get a hang of it. You'll need a learning partner standing in front of X3 and holding the handlebar with both hands to help stabilize the handlebar for the first time.

- Hold on to the handlebar with two hands. Step on X3 and look straight forward.
- Put one foot onto the platform first.
- Shift your center of gravity on the platform gradually before lifting another foot (imagine goind upstairs)
- Please try not to move the handlebar, and put another foot onto the platform (imagine standing on a flat ground)
- Keep calm and relaxed and look forward as shown below.



Please keep calm and relaxed, it is much easier than learning how to ride a bicycle. Some starters cannot help with some hola-hooping motion when first time getting on X3- It helps imagine the platform as flat ground and trust the balance automatically controlled by a build-in gyro-system in X3. Please stand upright and relaxed and rely on your learning partners to hold on to the handlebar. After getting used-to standing on X3, you're good to go.

Note: The more relaxed you are. The better balance you'll get.

## Go Forward and Backward

Push the handlebar gradually forward to feel the motion of X3 and the restore the status quo ante to feel the acceleration and deceleration. Steer at a slow speed and feel the motion controlled by your center of gravity. Look back and lean gradually backward to control X3 fall back, and then restore the status quo ante to feel the deceleration and brake. Keep practicing and pay attention to the wall and other obstacles to avoid falling over.



For starters, please steer in a slow and mild manner. Remember that the more relaxed your body is, the better balance you'll get. Please avoid drastic shakes in the fore-and-aft direction or an abrupt shift on your center of gravity, which will probably cause slip or fallover.

## Stop and Brake

Stop the unit by shifting your center of gravity to the opposite direction of travelling:

1. When the unit is in motion, gradually move back your hips as if you were to sit back to stop the unit.



Standard Brake Manner

- 2. When the unit fully stops, shift your center of gravity onto the center of the platform to get balanced. Of you continue to learn backward, X3 will go backward.
- 3. Mark a spot on the ground and practice balancing at that spot.

Please try to stop the unit in a gradual and mild manner, avoid abrupt brakes. Shift your center of gravity gradually back from the travelling direction to stop. On the typical asphalt pavement the braking distance on an X3 travelling at top speed is roughly 4m. Given this fact, please decelerate beforehand when expect obstacles or traffic lights. Please do not accelerate or brake on slippery surface, otherwise you may suffer fallover or even injuries.

#### Kake Turns

X3 will conduct turns as per the movement of the handlebar and control shaft. Push the handlebar left or right to make turns on the corresponding direction.

1. First practice turning on one spot by moving the handlebar gradually towards the direction you wish to turn to. X3 will turn on the spot sufficiently to the desired extent until you restore the handlebar. Keep practicing to get the skills.

2. Turn when in the motion. After getting a hang of going forward, backward and turning on one spot, you may try to make turns while going slowly forward. Keep your knees slightly bent and prepare to

lern toward the turning direction in accordance with the control shaft,. Keep practicing.



Sharp turns are dangerous whenever on one spot or in the motion. You will probably lose balance or even get thrown out. In this scenario, please decelerate to steer at a slow speed when making turns, which will help with better balance during a turn.

## Get Off

Getting off X3 is similar to stepping back down a staircase. You may ask your learning partner to help hold the handlebar when getting off X3 for the first time.

Instructions:

- Hold onto the handlebar and step off with one foot first, then the other. Control your center of gravity against shakeness and avoid moving the handlebar.
- Power off the unit when getting off the unit, do not loosen grip on the handle before powering it off, otherwise X3 will move forward and may cause accidents.



Please relax when getting off the unit and avoid shifting the handlebar, which will cause he unit to turn and your panic. As a result, an overly firm grip on the handlebar is not recommended.

#### **Important Note**

## Warnings

- Players under 18 or over 45 are supposed to find yourself learning partners.
- > Make sure to check the power level and tire before riding.
- > Please control speed before riding smoothly.



# USAGE

# Components

1. Handlebar

- 2. Human-Machine Interface (HMI)
- 3. Motor
- 4. Control Shaft
- 5. Foot Platform (Silica Gel)

# **Get Started**

To get started, adjust the control shaft of X3 to the upright position and parallelize the handlebar with the platform. Open the rubber cap at the center of the platform and power on the unit before turning on the remote control, and you'll hear a beep prompt to indicate that the unit is ready to use. Put first one foot on the platform then the other one after getting the beep prompt, and the unit is gyro-balanced and good to go. In case the control shaft is biased severely to one side, or the platform is not on a horizontal level, this indicates X3 is not ready to use. Get the unit in proper gyro-balanced state before getting on.

# **Kick Stand**

X3 comes with a kick stand. For temporary parking, release the kick stand to park X3. You may also buy and install it on your own.



Always release the kick stand when the unit is off. To prevent misuse of X3 by others, we strongly suggest you power off the unit when you're no around. In Addition, do not get on and steer X3 when the kick stand is released, otherwise the kick stand can be damaged and may cause accidents.

# New wireless remote key

A: Turn on: press button A for 3 seconds

Headlights: Press button a for a second after the chariot boots up

Atmosphere lights: Press again for a second

Turn off headlights: Press A for second after all lights on.

Turn off atmosphere light: Press A again for a second

Turn off: Press A for 3 seconds after the driver getting off.

B: Adjust the inclination of the chariot: Downward

**C:** Special attention: Button C used by the engineer for factory settings. Never press it unless you have professional guidance.

D: Adjust the inclination of the chariot: Upward



The outlook in function of each button of the remote key is shown in the picture above. The control distance can be 20-30m under barrier free, The remote has 4 buttons, which is defined as: **A**: On/Off; **B**: Downward; **C**: Engineering mode; **D**: **Upward** 

# MAINTENANCE

# **Cleaning and Storage**

- Please clean your X3 timely after usage to keep your X3 in top shape.
- Use a soft wet cloth to wipe the main body of the unit.
- Use a spray nozzle (water pressure < 1Mpa/145PSI) to flush the tires and dirt covers, Then wipe and dry them in flowing air.
- For stubborn stains or scratches, you may apply some tooth paste on it and scrub it with a tooth brush repeatly.
- Store X3 in dry and cool place indoor when it's not in use, Exposure to sunlight or freezing outdoor environment will lead to' accelerating aging of the exterior materials.

Make sure to power off X3, unplug the charger and seal the charge port cap before cleaning, otherwise the unit maybe short-circuited by water and damaged. Do not use a car – washing water cannon to clean X3 or submerge the whole unit in waterm this may cause water leakage into the unit and unserviceable damages.

# **Screw Connection**

All of the screws on X3 have been specifically processed against looses. Yet for safety concerns, please check connections on the wheel hub, control shaft, battery case, dirt cover, platform casing and dash board casing ect, regularly for loosened connection or abnormal noise. In case of any loosened connection, please check the screws on the connection joint and fasten them.

# Tire Pressure

Generally X3's tire pressure ranges between 1,5-2,0kg/cm<sup>3</sup>. High tire pressure contributes to smaller friction force and longer battery range, yet delivers less damping effect; On the other hand, low tire pressure shortens battery range but smoothens riding experience on bumpy terrains. Overly high or low tire pressure will deteriorate tire abrasion.

# **Transportation and Storage**

Please handle X3 as per the following steps.

- I. Please make sure X3 is powered off.
- II. Please remove the control shaft before storing X3 in the car trunk. To store the foldable control shaft, please fold it before storing in a car trunk.
- III. Please ask for necessary help when having difficulty with heaving the wheel assembly into the car trunk.

Recommended handling posture:

- 1. Hold X3 with one hand grip on the front part and another hand on the battery case part of the wheel assembly.
- 2. Grip with both hands on the protruding part of the hub to heave the unit upward.

# LIMITED WARRANTY

Please retain the warranty and proof of purchase (i.e.receipt).

Limited Warranty Terms (Non-Artifical Damage Only)

- I. 1 year for the main body (one month for wearing parts, i.e. casing and tires)
- II. 6 months for the battery

## The following situations will not be covered by the warranty:

- Malfunction due to misuse
- > Malfunction caused by unauthorized modifications, disassembling, or repair.
- > Accidental damage or malfunction due to improper storage.
- > Discrepant warranty/proof of purchase and product.
- > Exterior damages due to usage.
- > Disassembling parts unspecified by this manual.
- > Damage or malfunction caused by riding rainy days or dipping in water.

# **SPECIFICATIONS**

Specifications	Parameters	Details
Motion of the Control Shaft	Horizontal	
Weight	26kg	Standard Accessory
Max. Speed	About 18 km/h	Speeding alert activates at 12km/h
Max. Range	15-35 km	Vary with rider's weight, road condition and temperature
Max. Climbing Angle	About 15 <sup>0</sup>	Riders weighing 60 kg get up to 18 <sup>0</sup>
Working Temperature	-10°C - 40°C	Best at 10°C -30°C
Max. Load	120 Kg	
Charge Voltage	AC 220V 50-60Hz	Optional 110V/110V-240V
Charge time	4-6 hours	
Size	Length: 60cm, Width: 39cm, Height: 130 cm	
Tire size	15 inches	
Platform Height	22,5 cm	
Chassis Height	10 cm	

# **APPENDIX I**



# **PACKING CONTENTS**

Open the packing box, take out the battery user manual and charger, then take out the other side of the foam chunk and unpack the wheel assembly.



Given the weight of the wheel assembly, please heave it upward with care. Better find someone for necessary help. Please pay attention to your hands and the front and rear end of the wheel assembly, and avoid lifting it be the dirt covers, otherwise your finger may be caught.

# **CHARGING NOTES**

Charge Note: plug X3 to the charger before connection the charger supply. (X3 should be turned off when charging). Please continue to charge for 20 min after the LED indicators are on green for the first time. (The indicator will be red when X3 starts to charge).



# **RELATION BETWEEN RANGE AND LOAD**

Similar to the relations between fuel consumption and cargo load, range per charge is related to rider's body weight. In light of the conclusion we draw from practical tests (rider's weight: 60kg; riding speed: 7km/h and constant; road condition: smooth and flat(, range per charge falls by 1,5-2,0 km for each additional again of 10kg



# FAQ

Q: Do I need to license my X3?

A: Licensing system varies in different countries. Please refer to local laws and regulations or enquire with the epartment concerned for corresponding policy. Generally X3 is not allowed in motorized vehicle lanes or highways.

Q: Hoe to set up the X3?

A: Please refer to the installation parlin this user manual.

Q: How to charge the X3?

A: Please charge the unit with the charger included in standard accessories. The charger is 240V ready chargeable.

Q: My X3 tilts backward in motion, is it normal?

A: It's normal when X3 is running on low battery. You can simply solve it by powering off the unit and charge is it to the full. In another scenario, the unit may also tilt backward when it's running at a high speed to shift the rider's center of gravity backward and prevent further acceleration. Q: Can I customize X3 to lift the speed limit?

A: Sorry can't Over speed protection is designed to ensure player's own safety during usage.

Q: How can I tell whether my X3 is fully charged or not?

A: There's a charging indicator light on the charger. A red indicator light indicates that X3 is under charging and a green one indicates that X3 is fully charged or not charged.

Q: How long does it take to be fully charged?

A: X3's exclusive charger is featured with compensating function. When charging for roughly 4 hours, the charger will be on green. Which indicates power level reaches 80% full. Then the battery will conduct SOC equalization before getting charged again and this process will be conducted 3 times till the battery is fully charged.

Q: Should I power Off X3 to charge or not?

A: Please power off X3 for charging.

Q: How long does it to learn this thing?

A: On average, starters take only 1-3 min to get a hang of it. Keep practicing for a couple of days and you'll be a proper ride.

Q: Can I ride it on motorways?

A: Please don't unless it has a motor licence. In most countries, you're supposed to steer it only onnon-motorized vehicles lanes.

# **ROAD TEST**

X3's battery range is closely related to ambient temperature, weight, riding manner and battery discharge capacity. Test condition: environment temperature: 30°C; tester's weight: 60 Kg, test venue: indoor stadium. The tester riders X3 at a constant speed of 8Km/h using standard riding manner without

any tricks. Test result: 10% battery capacity remained when test finished. However in practice, lithium battery will conduct a discharge restriction for user's safety and battery life expectancy, which will reserve 30% battery capacity.



# CONTACT US

Please contact us as per the following info for any inquiries regarding riding, maintenance and safety issues or any problems and failure during your usage. We'll be glad to offer you prompt assistance. Scan the official QR code on the back over with your smart phone and get linked to our official to learn more about X3's latest updates and new products.

## After-sales info

Please call our customer service center or visit our official website for the address of the service center and other related into.

# **TERMS AND CONDITIONS OF WARRANTY, WARRANTY CLAIMS**

## **General Conditions of Warranty and Definition of Terms**

All Warranty Conditions stated hereunder determine Warranty Coverage and Warranty Claim Procedure. Conditions of Warranty and Warranty Claims are governed by Act No. 40/1964 Coll. Civil Code, Act No. 513/1991 Coll., Commercial Code, and Act No. 634/1992 Coll., Consumer Protection Act, as amended, also in cases that are not specified by these Warranty rules.

The seller is SEVEN SPORT s.r.o. with its registered office in Borivojova Street 35/878, Prague 13000, Company Registration Number: 26847264, registered in the Trade Register at Regional Court in Prague, Section C, Insert No. 116888.

According to valid legal regulations it depends whether the Buyer is the End Customer or not.

"The Buyer who is the End Customer" or simply the "End Customer" is the legal entity that does not conclude and execute the Contract in order to run or promote his own trade or business activities.

"The Buyer who is not the End Customer" is a Businessman that buys Goods or uses services for the purpose of using the Goods or services for his own business activities. The Buyer conforms to the General Purchase Agreement and business conditions to the extent specified in the Commercial Code.

These Conditions of Warranty and Warranty Claims are an integral part of every Purchase Agreement made between the Seller and the Buyer. All Warranty Conditions are valid and binding, unless otherwise specified in the Purchase Agreement, in the Amendment to this Contract or in another written agreement.

#### Warranty Conditions

#### Warranty Period

The Seller provides the Buyer a 24 months Warranty for Goods Quality, unless otherwise specified in the Certificate of Warranty, Invoice, Bill of Delivery or other documents related to the Goods. The legal warranty period provided to the Consumer is not affected.

By the Warranty for Goods Quality, the Seller guarantees that the delivered Goods shall be, for a certain period of time, suitable for regular or contracted use, and that the Goods shall maintain its regular or contracted features.

#### The Warranty does not cover defects resulting from (if applicable):

- User's fault, i.e. product damage caused by unqualified repair work, improper assembly, insufficient insertion of seat post into frame, insufficient tightening of pedals and cranks
- Improper maintenance
- Mechanical damages
- Regular use (e.g. wearing out of rubber and plastic parts, joints etc.)
- Unavoidable event, natural disaster
- Adjustments made by unqualified person
- Improper maintenance, improper placement, damages caused by low or high temperature, water, inappropriate pressure, shocks, intentional changes in design or construction etc.

## Warranty Claim Procedure

The Buyer is obliged to check the Goods delivered by the Seller immediately after taking the responsibility for the Goods and its damages, i.e. immediately after its delivery. The Buyer must check the Goods so that he discovers all the defects that can be discovered by such check.

When making a Warranty Claim the Buyer is obliged, on request of the Seller, to prove the purchase and validity of the claim by the Invoice or Bill of Delivery that includes the product's serial number, or eventually by the documents without the serial number. If the Buyer does not prove the validity of the Warranty Claim by these documents, the Seller has the right to reject the Warranty Claim.

If the Buyer gives notice of a defect that is not covered by the Warranty (e.g. in the case that the Warranty Conditions were not fulfilled or in the case of reporting the defect by mistake etc.), the Seller is eligible to require a compensation for all the costs arising from the repair. The cost shall be calculated according to the valid price list of services and transport costs.

If the Seller finds out (by testing) that the product is not damaged, the Warranty Claim is not accepted. The Seller reserves the right to claim a compensation for costs arising from the false Warranty Claim.

In case the Buyer makes a claim about the Goods that is legally covered by the Warranty provided by the Seller, the Seller shall fix the reported defects by means of repair or by the exchange of the damaged part or product for a new one. Based on the agreement of the Buyer, the Seller has the right to exchange the defected Goods for a fully compatible Goods of the same or better technical characteristics. The Seller is entitled to choose the form of the Warranty Claim Procedures described in this paragraph.

The Seller shall settle the Warranty Claim within 30 days after the delivery of the defective Goods, unless a longer period has been agreed upon. The day when the repaired or exchanged Goods is handed over to the Buyer is considered to be the day of the Warranty Claim settlement. When the Seller is not able to settle the Warranty Claim within the agreed period due to the specific nature of the Goods defect, he and the Buyer shall make an agreement about an alternative solution. In case such agreement is not made, the Seller is obliged to provide the Buyer with a financial compensation in the form of a refund.

# **S** in**sport**line

## SEVEN SPORT s.r.o.

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Date of Sale:

SK

Stamp and Signature of Seller: