



USER MANUAL

SMART FIVE PERSONAL TRANSPORTATION SYSTEM

Thank you for choosing a Hyper-Board electric scooter.

WARNING!

- Before your start, please read this manual thoroughly so you understand how to safely operate and look after your Hyper-board.
- ALWAYS WEAR SUITABLE SAFELY CLOTHING INCLUDING A HELMET AND ELBOW AND KNEE PADS WHILST USING YOUR HYPER-BOARD.
- We accept no responsibility for injury or damage resulting in failure to read and adhere to the instructions and guidelines written within this booklet.
- If you require any help or technical support, you can contact the retailer or Hyper-Board directly.

Chapter 1: General Information

1.1 About the manual

Before operating this vehicle, read all the instructions for safe assembly and operation. This user manual will guide you through the functions and usage of A Hyper-Board. The user's manual is applied to all the Smart Vehicles made by our factory. If you have any questions or you cannot get the information you require from this manual please contact the local agency or our company.

WARNING!

1.2 The risk of driving

A Hyper-Board is a smart transport and recreation tool. Its manufacture and testing are to the highest standards and comply with FCC regulations.

However, failure to adhere to the instructions of this manual may result in injury or even death.

1.3 Preparation before operation

Before operation, the battery should always be checked to make sure it is fully charged. For more details please see Chapter 7.

1.4 Related explanation

Please pay particular attention to the 'WARNING' and 'NOTE' sections that you will see as you read through the manual.

WARNING! Failure to adhere to instructions may result in injury or even death.

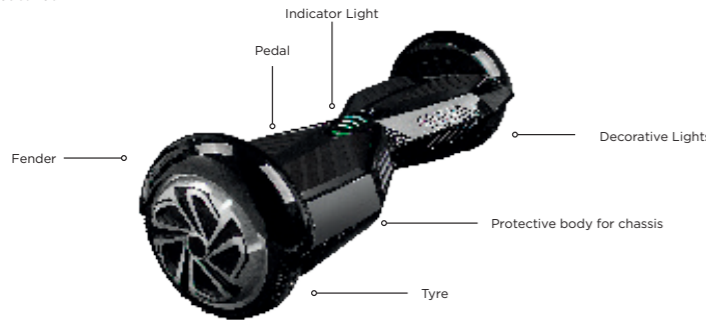
NOTE: Important information related to its use.

Chapter 2: Product introduction

2.1 Your Hyper-Board

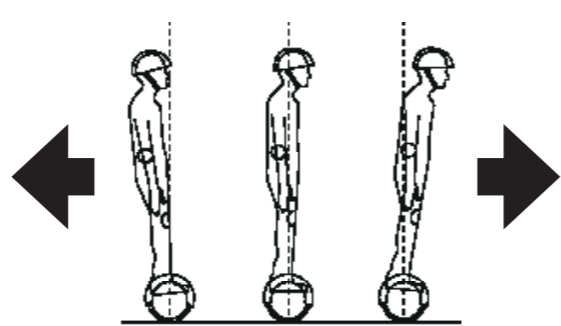
A Hyper-Board can go forwards, backwards, with steering and stop controlled by dynamic body movement.

2.2 Features



2.3 Operating your Hyper-Board

- Hyper-Board adapts to your dynamic movement, using internal gyroscopes and acceleration sensors. The Hyper-Board is controlled by your centre of gravity. When you lean forward, it will sense the movement and accelerate. When you lean backwards it will slow down. If you need need to swerve, turn left or right the Hyper-Board will sense your centre of gravity and adjust its direction of travel.
- Hyper-Board has an dynamic stabilisation system, so it can keep anterior or posterior balance (forwards andf backwards) but cannot guarantee the balance to the left and right. When swerving or turning, the scooter needs to be operated carefully otherwise injury may occur because of centrifugal force acting on your body.



Chapter 3: Remote Control (optional - included in some models)

3.1 The remote controller (Included in some models)

The Hyper-Board remote control works from a distance of approximately 5 meters depending on the battery power. It has several functions;



TURN OFF: When the scooter is turned on and no-one is standing on it this button will turn the power off.

LOCK/UNLOCK: When the scooter is turned on without being operated for a long time the scooter will lock automatically. Push this button to unlock the scooter. Push the button to lock the scooter so it cannot be used. The scooter will automatically power down after 10 minutes of inactivity. If the scooter is in LOCK mode it will continue to draw power from the battery until it is unlocked.

Volume UP: Increases the volume when in Blue tooth connection mode.

Volume DOWN: Decreases the volume when in Blue tooth connection mode.

Chapter 3: Control and Device Indicators

3.2 Pedal sensor

The Hyper-Board has 4 sensors below the pedal pads, when the operator steps on the pedal, the scooter will adjust itself to a balancing pattern automatically. When riding it, you have to make sure that the pedal pads are in full contact with your feet, please do not step on any area outside of the pedals. Do not put any object on the pedals that would prevent the scooter being turned off as this could result in personal injury and damage to the scooter itself.

3.3 Indicator Light

The indicator Light is located in the middle of the scooter. It shows the following information.

Battery indicator part:

- Green light: Fully charged
- Yellow light: 50% battery power
- Red light: 20% battery life remains and require charging

Operation indicator:

When the pedal is triggered, the operation indicator will light and the Hyper-Board will become active; if there is a system error, the indicator will turn red.

Chapter 4: Safe limitations of use

We hope every operator can ride and enjoy the Hyper-Board safely.

- If you follow the User's Manual, you can ride the self-balancing electric scooter safely. We recommend that you read the manual carefully before you start. Before riding, make sure the tyres are in good condition and there are no loose parts. If there is anything wrong with the scooter please contact the manufacturer for repair instructions.
- Please read the manual carefully as it contains important information, including speed limitation, indicator warnings and safety use.
- Never use the scooter to do anything that may cause personal injury, loss or damage to property.
- Never modify any parts of the electric scooter as this may cause injury or loss.

4.1 The weight limitation of the operator

Please adhere to the weight limitations as this will guarantee the safety of the operator and decrease the damage of overloaded.

- Maximum load: 100kg
- Minimum load: 20kg

WARNING! Overloading the scooter may result in injury and damage.

4.2 Range per charge

The range per charge is related to many factors, for example:

- Topography: On even surfaces, the range per charge will be greater than an uneven surface.
- Weight: The weight of the operator can have an influence on the driving distance.
- Temperature: The use of the scooter at an appropriate temperature will increase driving distance. If it is used in an extreme temperature the driving distance will decrease.
- Maintenance: If the scooter is charged properly and the battery is kept in good condition, this will increase the driving distance.
- Speed and driving style: kept at a moderate speed the driving distance will increase. If you frequently start, stop, accelerate, decelerate etc. this will reduce the distance.

4.3 Maximum Speed

- The maximum safe speed of the scooter is 10km/h.
- When the operator exceeds the max. speed, an alarm will sound to warn the driver to slow down.
- If used at below the maximum speed, the electric scooter is safe to use but if that speed is exceeded, driving may become dangerous.

Chapter 5: Learn how to use your Hyper-Board

Please read the following instructions carefully.

5.1 Learn how to use it

- Step 1: Press the power switch to turn on the self-balancing electric scooter .
- Step 2: Using one foot, step on to one of the pedals to activate the self-balancing system. Then step on with the other foot.
- Step 3: Take control of the scooter using a gentle forwards and backwards motion of your body.

NOTE:

If the scooter doesn't activate the self-balancing system when you trigger the foot-switch, an alarm will sound and the LED warning lights will come on. If this happens you will need to go through steps 1-2 again.

- Step 4: Control the left and right direction of the scooter by putting morre pressure on the foot pad on one side. For example if you press harder on the right hand side of the Hyper-Board pad you will turn left and vice versa.
TIP: if you turn your shoulders towards the direction you want to go, the Hyper-board will go in that direction.
- Step 5: Getting off. Before you get off, make sure that the Hyper-board is stationary, then step off the back of the Hyper-board, one foot at a time.

WARNING!

SWERVING VIOLENTLY WHEN DRIVING FAST IS DANGEROUS AND MAY CAUSE SERIOUS HARM OR DAMAGE.

YOU MUST NEVER RIDE SIDEWAYS OR SWERVE ON A SLOPE AS THIS WILL HAVE AN ADVERSE EFFECT TO YOUR BALANCE AND ENDANGER YOUR SAFETY.

5.2 Protection functions

The Hyper-board will sound an alarm and the indicator lights will flash in the following situations:

- During operation if the system cannot enter self-balancing mode, the scooter will prompt the operator with the alarm indicator lights and the buzzer alarm beeping intermittently.
- If, once you have stepped on the scooter, the platform tilts forwards or backwards more than 10 degrees.
- The voltage of the battery is too low.
- During charging.
- During operation, the platform is upturned this will prohibit operation.
- Over speeding.
- The battery is not enough.
- The electric scooter shaking back and forth more than 30 seconds.
- If the system enters protection mode the alarm indicator lights and buzzer alarm will sound.
- If the platform go forwards or backwards more than 35 degrees, the electric scooter will stop immediately.
- Tyre stall, two seconds later the electric scooter enters power off mode.
- The battery voltage is lower than the protection value, 15 seconds later the electric scooter will power off.
- Continuing large current discharge (such as climbing a very steep slope), 15 seconds later the electric scooter enters into power off mode.

WARNING!

When the scooter enters into shut-down mode, the system will lock down the machine automatically. It can be unlocked when you press the lock button. When the battery has been depleted or the system gives out information with safely shut-down, please do not continue to drive the scooter, otherwise it cannot balance due to the lack of battery. In this condition, the driver is likely to be harmed. If the battery reaches minimum, continuing driving the scooter will affect battery's life.

5.3 Riding practice

Before you drive the scooter outdoors, please make sure you are comfortable driving it:

- Wear protective clothing such including a helmet, elbow and knee pads.
- Try to wear casual clothing and wear flat shoes to maintain the flexibility of the body.
- Use open spaces to practice driving the scooter until you can easily get on, go forwards and backwards, swerve, stop and get off.
- Make sure the surface you are on is even.
- Do not ride on any unfamiliar terrain.
- Your Hyper-board is a transportation tool designed for smooth surfaces. When it is used on uneven surface, the user should slow down.
- If you are unfamiliar with the scooter please avoid driving to places that could be potentially dangerous such as areas with pedestrians or obstacles. Be careful when you go through doorways and ensure there is adequate room for the scooter to pass through.

Chapter 6: Safe driving

This chapter will focus on safety knowledge and warnings. Before operating this vehicle, read all the instructions for safe operation. The User Manual can guide you through the functions and usage of your Hyper-board. To ensure our products bring you the best driving experience, read the user manual carefully.

WARNING!

- Before your start, familiarise yourself with how to operate the scooter, so that you can keep it in good condition.
- When you are learning to ride the scooter, make sure that you wear a helmet, knee pads, elbow pads and other protective gear.
- Do not ride after drinking or taking drugs.
- When riding your Hyper-board, you should comply with local traffic laws, and give way to pedestrians.
- Be alert to your environment, maintaining good spacial awareness will help you drive the scooter safely.
- Relax your legs, with knees slightly bent while riding, can help maintain balance when you encounter uneven surfaces.
- While riding, ensure that your feet are always on the pedals.
- Please wear appropriate clothes to minimise injury if you should fall off.
- Hyper-boards are meant for use by one person ONLY at a time.
- Do not start or stop suddenly.
- Avoid driving on steep slopes.
- Do not drive in dimly lit or dark places.
- The weight of the user and their belongings should not exceed the maximum load indicated in the instruction, otherwise the driver may risk injury or even damage the electric scooter. In addition, the driver's weight should not be less than the minimum weight as marked in the instruction, otherwise the pressure on the pedals may not be registered and could prevent the scooter from slowing down or stopping resulting in injury or damage.
- Ensure your speed is safe for yourself and others, and be ready to stop at any time when operating.
- When you are driving the Hyper-board along with other scooter users, please keep a safe distance from each other to avoid collision.
- Keep in mind whilst driving the scooter that you increase your height by 10 centimetres, please mind your head when going through doorways or under things.
- When steering you should be aware of your body's centre of gravity, any violent shift of centre of gravity may cause you to lose balance and fall off resulting in injury or damage.
- Do not ride in wet conditions.
- Avoid moving backwards over long-distances.
- Avoid high speed whilst moving backwards
- Avoid moving backwards and high speed whilst cornering.
- Avoid riding on uneven ground and very smooth surfaces such as snow and ice.
- Avoid riding on items made of cloth, small branches or stones.
- Avoid riding in narrow spaces or where there is an obstacle.
- Ride the scooter in appropriate environments and where you are legally allowed to be.
- Never use in an unsafe environment where there may be flammable liquids, vapour, dust or fibres or any other substance that may cause fire.

Chapter 7: Battery usage

For the safety of yourself and others, and to maximise the battery's life and improve battery performance, please make sure you follow the points below.

7.1 Low battery

When you find the battery indicator is red and flashing, it indicates low battery. We recommend that you stop riding. When the power is low, there is not enough energy for normal operation and the system will automatically tilt the base of the platform to prohibit the operator use. It is dangerous to carry on driving in this condition and it will also affect battery's life.

- Do not use the battery in the following cases.
 1. If it is giving out an odour or excessive heat.
 2. It is damaged or leaking any substance.
- Do not attempt to disassemble the battery.
- Do not touch any substance leaking out of the battery.

- Keep children and animals away from the battery.
- When charging, DO NOT attempt to use the Hyper-board.
- Batteries contain dangerous substances inside, do not open the battery or insert anything into it.
- Only use the charger included with your Hyper-board.
- Dispose of lithium batteries responsibly.

7.2 Charging steps

- Ensure the charging port is dry.
- Plug the switch into the power interface (100V-240V; 50,60Hz), verify the green LED lights properly, then plug the other end of the charger into the Hyper-board.
- When the red indicator light comes on the charger, it indicates that it is charging properly. If not please check the connections.
- When the indicator light on the charger goes from red to green it indicates that the battery is fully charged.
- The charging time is approximately 2 hours, over-charging time will affect the battery's life.
- Please ensure that the charging environment is clean and dry.

7.3 Temperature issues

- For the Hyper-board to run efficiently you must keep the battery in good condition in line with the specifications in the table below.
- The temperature during the charging process must be within the recommended values set out below. The charging efficiency is at it's best when the temperature is within the limits below. If it is too hot or too cold, the charging time will be longer, or it may not fully charge.

7.4 Battery Specification

NAME	PARAMETERS
Battery	lithium-ion battery
Charging Time	2-3Hours
Voltage	36V
Initial Volume	4.4AH
Working Temperature	-15° C-50° C
Charging Temperature	0° C-40° C
Relative Humidity of Storage	5%-95%

7.5 The transport of the battery

WARNING!

Lithium batteries are considered hazardous materials and should be handled with care.

NOTE:

If you need to transport your Hyper-board with lithium batteries by air please ensure that you contact the transport company.

Chapter 8: Maintenance of your Hyperboard

The Hyperboard needs to be maintained for safety and quality of ride.

8.1 Cleaning

- Make sure the power is off and the charger is disconnected and unplugged.
- Wipe the shell of electric scooter using a soft cloth.

WARNING!

- Dust-proof and waterproof to IP54. Can withstand dust and splashes.
- Avoid water or other liquids that may seep into the Hyper-board as this could cause permanent damage to the internal electronics.

8.2 Storage

- Before storage, fully charge the electric scooter to prevent battery over discharge due to a long time of non-use.
- If the storage temperature is below 0° C, please do not charge the scooter. Place it in a warm environment (higher 10° C) before charging.
- Cover the Hyperboard when not in use to protect it from dirt and dust.
- Always keep the Hyperboard indoors when not in use. Store it at a suitable temperature in a dry place.

WARNING!

- Do not attempt to open and disassemble the scooter as this will invalidate your warranty.

SPECIFICATIONS	Neon	Argon	Xenon
Net Weight	10kg	10kg	10kg
Minimum Load	20kg	20kg	20kg
Maximum Load	100kg	100kg	100kg
Maximum Speed	10km/h	10km/h	10km/h
Range Per Charge	15-20km	15-20km	15-20km
Climbing Capacity	15°	15°	15°
Radius of turning Circle	0°	0°	0°
Energy	Recharge. Li Battery	Recharge. Li Battery	Recharge. Li Battery
Charger Voltage	100-240V 50-60Hz	100-240V 50-60Hz	100-240V 50-60Hz
Dimension	548 x 186 x 178mm	548 x 186 x 178mm	548 x 186 x 178mm
Chassis Height	30mm	30mm	30mm
Pedal Height	110mm	110mm	110mm
Tyre Mode	Free Inflatable Hollow Tyre	Free Inflatable Hollow Tyre	Free Inflatable Hollow Tyre



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