



Patton

User Manual

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1. Overview of the User Manual

Thanks for purchasing LeaperKim electric unicycle. We will wholeheartedly provide you with satisfactory products and services.

This vehicle is strictly prohibited to drive on the motorway. It must be confirmed that it meets the requirements of local laws and regulations. Do not use this product in the areas prohibited by laws and regulations. Do not use this product at the speed specified by local laws and regulations.

In order that you can ride the LeaperKim electric unicycle more safely, please carefully read and understand all the product information and precautions listed in this manual before riding, and refer to the instruction to operate LeaperKim electric unicycle.

Please maintain the vehicle regularly, which will help to keep the performance and resale value of the vehicle product.

Please keep this manual for future after-sales use.

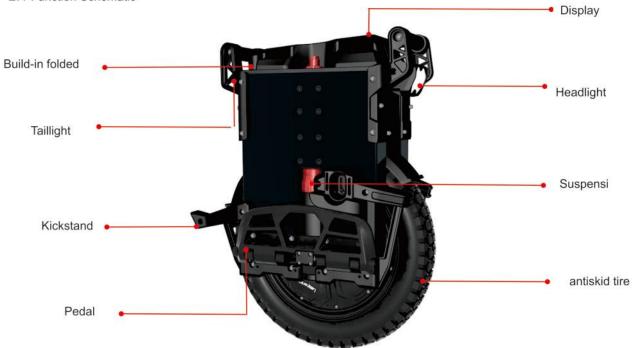
Your satisfaction with the Leaper Kim electric unicycle is our driving force!

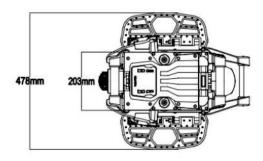
Guangzhou Coyote Intelligent Equipment Co., Ltd.

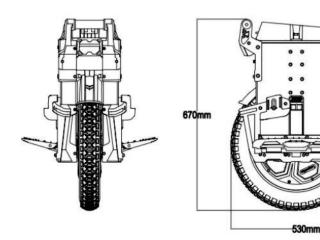
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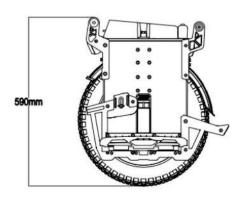
2. Description of Product

2.1 Function Schematic









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2.3 Specification

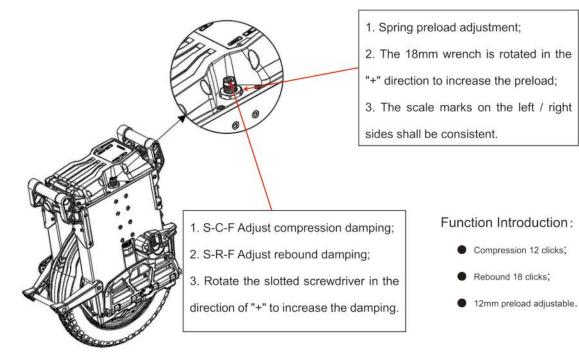
	Specification	
Item name	Patton	
Free-spin speed	Normal mode 85 km/h, high-speed mode 105 km/h	
Safe speed	25km/h	
Motor power	3000W	
Battery	Samsung 50E 21700 2220wh. Overcharged, over discharged, charge port output short circuit protection	
Operating Temperature	-10°C~80°C	
Max load	120kg	
Charger	126V,5A	
Charging time	4.5h (5A)	
Color	Black	
	Dimension and Weight	
Dimension and Weight	530mm*203mm*670mm	
Net weight	39kg	
Pedal size	115mm*300mm	
	Hardware	
Suspension	Mid-mounted normal suspension, preload adjustable, Compression 12 clicks, Rebound 18 clicks. Shock absorption stroke: 80mm	
Pedal	Magnesium alloy	
Control board	Double layer control board	
Tire size	18 inch 3.0-12(460mm)	
Trolley handle	Build-in folded	
Display	Show speed, voltage, mileage, mode, battery status etc.	
Charge port	Dual charge port support max 15A	
Headlight	2000lm 18W double lamp beads	
Taillight	Turning, braking warning light	
	Software	
Fault self-rerifying	Battery packs high temperature warning, battery packs overcharged warning, battery packs high voltage warning, charging current over default value range warning, Hall erro warning, vehicle overheat warning.	
Angle cut out setting	Front and rear decline angel setable to 68°, left and right angle setable from 35°-70°	
Speed limit	Setable via display	
Low battery protection	97.5V beeping and 94.5V tilt back in normal mode, 90V beeping and 87V tilt back at low battery mode	
Overheat protection	Code warning at 80°C	
Other functions	Various function setable from display. Support data log	

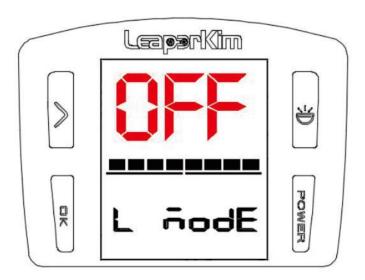
Packing list			
No.	Description	Unit	Qty
1	Unicycle	PCS	1
2	Charger	PCS	1
3	User Manual	PCS	1
4	Vehicle Information Card	PCS	1

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3. Function Introduction

3.1 Mid-mounted normal suspension



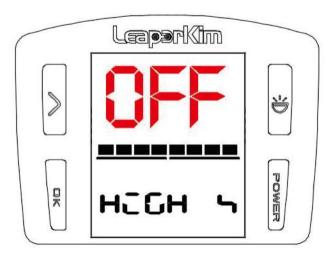


Function Introduction:

- OFF: Beeping when voltage lower than 97.5V
 Tilt back when battery lower than 84.5V;
- ON: Beeping when battery lower than 90V
 Tilt back when battery lower than 87V;

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3.3 High Speed Mod



Function Introduction:

- OFF Mode:Max free spin speed 85km/h;
- ON Mode: Max free spin speed 105km/h;



Function Introduction:

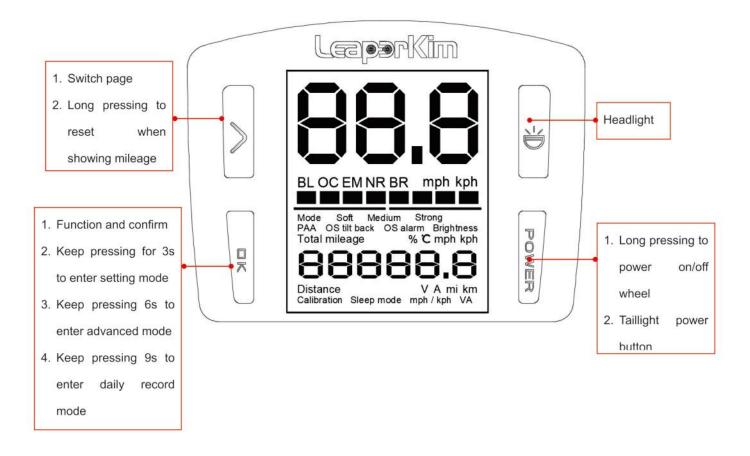
- 8 levels of angle protection adjustment;
- The bigger the value, the bigger the tilt angle;

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3.5 Vehicle Fault Self Rerifying Information

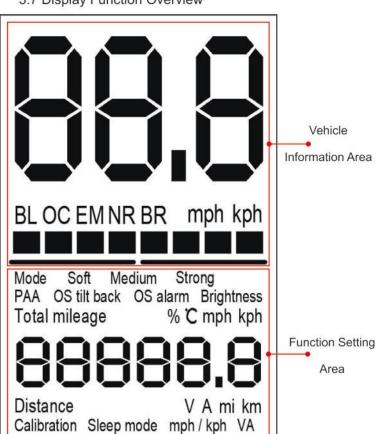
NO	Code	Problem	Remark
1	br t£ā	Battery packs high temperature waming	
2	bl ten	Battery packs high temperature waming	
3	PF FOA	Battery packs overcharged warning	
4	U HECH	Battery packs high voltage warning	
5	E CHU-	Charging current over default value range waming	
6		Hall erro warning	
7	F HCCH	Vehicle overheat warning	

3.6 Display introduction



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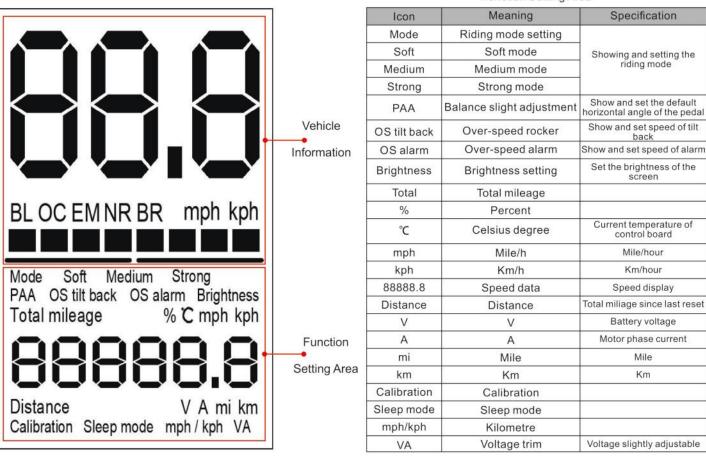




Vehicle Information Area

Icon	Meaning	Specification
88.8	Speed	
BL	Left side battery pack	On: Overcharged Flash: over discharge Off: normal
OC	Over current warning	Off: normal
EM	Motor error	Off: normal
NR	Motor stall	Off: normal
BR	Right side battery pack	On: Overshoot Flash: over discharge Off: normal
mph	Mile/h	
kph	Km/h	
	Capacity	
	Left and right battery communication situation	On: normal Flash: signal lost

Function Setting Area



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3.8 Usage Notice

- The following persons are prohibited from riding this product:
- 1. Persons who are under the influence of drugs or alcohol and have limited mobility and reaction ability. Or people with hypertension, cardiovascular and cerebrovascular diseases or other high-risk diseases.
- 2. Minors under 14 years old, pregnant women, mentally ill and the elderly over 60 years old.
- Do not use this product in the dark or in the places where the sight is blocked, or on the slippery, ponding, pothole and other roads.
- Do not ride it at high speed or accelerate or decelerate sharply when the battery capacity is low.
- Do not perform any dangerous actions (jumping, one foot riding, reversing, carrying people, over-speed riding, etc.
- Please wear helmet, knee protection, elbow protection, gloves and other protective equipment before riding this product.
- Where there are people or obstacles, please control the speed reasonably and prohibit speeding.
- This product is not allowed to be disassembled or repaired by un-professional personnel. If the machine is disassembled by oneself, the product warranty service will no longer be enjoyed.
- If the vehicle makes alarms, please stop riding it immediately and sent to the professional maintenance point for maintenance in time.
- Please carefully read and understand all the product information and precautions listed in this manual and follow the use behavior suggested in this manual to avoid unnecessary loss and injury, otherwise you need to bear all the consequences arising therefrom.

• During the production or sales of this product, design changes and further improvement will be carried out continuously. In case of any discrepancy with this manual, please refer to the actual product.

4. Maintenance

- Use this product frequently, and check whether the screws are loose on time.
- Check the tire pressure on time. The suggested pressure is 2.5-3.0bar.
- Better to put the vehicle in the dry area.
- Charge the battery to full charge at least once every two months.
- · Avoid recharging when the battery is completely exhausted.
- Avoid placing the battery in the environment which is above 50 °C or below 20 °C.
- It is prohibited to use chargers other than the standard charger for charging.
- It is forbidden to immerse this product in water and wash it with high-pressure water gun.

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5. Warranty

NO.	Items	Warranty time
1	Controller	24 month
2	motor	24 month
3	Battery packs	18 month
4	Charger	6 month

- The following conditions are not covered by the warranty and need to pay for maintenance.
- The validity period of three guarantees has expired.
- Damage caused by human factors.
- Damage caused by force majeure.
- All kinds of damage caused by failure to use, maintain and transform according to the requirements of the user manual.
- Failure or damage caused by forced use of this product beyond normal conditions.
- The product has been disassembled or maintained by personnel not authorized by our company.
- Malicious damage to warranty content and vehicle body information.
- Other faults or damages not caused by the design, technology, quality, manufacturing and other problems of the product itself.
- Natural wear and tear that does not affect the function.



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FCC Caution.

§ 15.19 Labelling requirements.

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.

§ 15.21 Information to user.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

§ 15.105 Information to the user.

Note: 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 or more 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.