



KS-16X/XS

User Manual

WARNING

Electric unicycle is designed for the outdoors and short distance personal transport.

SAFETY IS THE NUMBER ONE PRIORITY!
PLEASE RIDE UNDER LOCAL LAW!

The user manual below is a quick and convenient guide of safety & item functions/features to end user. We can't ensure all types of situation emergency are covered. Therefore, we **STRONGLY** remind you to read this guide very carefully, and ride with attention to ensure your safety.

Riding like all outdoor activities comes with its risks. You risk serious danger and injury if you fall, collide or lose of control when riding, please ride with caution and at your own risk.

Thanks you for purchasing King Song smart electric unicycle!

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1. Product Details

1.1 Diagram: KS-16X / 16XS



1. Dual USB Port
2. Headlight
3. RGB Led
4. Power Button
5. Light Sensor
6. Out Shell
7. Tire

8. Trolley Handle
9. PU Foam
10. Pedal
11. Dual Charger Port
12. Woofer
13. Brake Light
14. Mud Flap

1.2 Specifications

Model No	KS-16X	KS-16XS
Top Speed	0~10km: 40km/h; exceed 10km: decode to 50km/h (Default speed beep setting: 1st at 18km/h, 2nd at 19km/h, Pedal tilt back at 20km/h)	
Mileage	Around 150km	Around 75km
Maximum Grade	Around 35°	
Battery	Rated Power: DC 74V Top Charging Voltage: DC 84V Rated Capacity: 1554Wh	Rated Power: DC 74V Top Charging Voltage: DC 84V Rated Capacity: 777Wh
Operating Temperature	-10 C/+60 C	
Max Load	120kg	
Charger Voltage	Input AC 80~240 V / Output DC 84V、 1.5A/2.5A	
Charging Time	About 8h	About 4h
Rated Power	2200W	2000W
Max Power	4200W	3500W

Dimension & Weight		
Dimension	49.5*48*59 cm	
Package Size	55.5*30.5*73 cm	
Pedal Altitude	180 mm	
Tire Size	16*3.0 inch	
Weight	23.9kg	20.68kg
EUC Port	Charging Port*2; Switch Port*1; Light Sensor Port*1; USB Discharge Port*2 (one port support USB plug and play)	
Standard Accessories	Charger*1, User Manual x1, Warranty Card*1, Certificate*1	

1.3 Main Functions

- 2200W Motor, providing powerful torsion (120N.m), fast & pleasant acceleration.
- 4-Layer controller structure design, TO-247 Imported provide guarantee for 2200w motor.
- Turbo inverter fan adjust the air flow according to MOS ube's temperature.
- 4.0 Bluetooth module, more stable data transfer.
- 5.0 Music Bluetooth technology, high quality music play.
- 4*5W Full-frequency Horn & 1*20W Woofer.
- QC 3.0 Quick charger, U flash can input music.
- Dual charger port, reduce charging time 50%.
- 5W high beam & 4W light beam, provide better view in night.
- Real-time monitor on controller board and motor, beep alarm when malfunction or pedal tilt back.

2. Safety

As an outdoor sport and auxiliary transport device, serious injury may occur any time during riding. PLEASE BE CAUTIOUS ALL THE TIME, LEARN AND PRACTISE STEP BY SETP BEFORE IT REGULARLY. READ THE INSTRUCTIONS

THOROUGHLY AND CAREFULLY TO LIMIT THE RISK OF INJURY.

2.1 Important

- Do not make rapid acceleration or deceleration or over incline forward or lean backwards.
- Do not use the EUC if there are any risks of accidental fails.
- When there is alarm of over power, over voltage, low battery , please decelerate at once.

2.2 Attention

- Please wear helmet, gloves. Elbow/Knee pads or other protection garments.
- Please check the device before ever ride to make sure no parts are loose or damaged.
- When there are crowded pedestrians, please slow down to match their walking speed.
- When carry the device, please make sure the power is off.
- Do not ride on highways or any other prohibited places.
- Do not ride on rough or bumpy surfaces, such as muddy or pebbled roads.
- Do not ride on wet, slippery surfaces, especially snowy roads.

- Do not ride on wet, slippery surfaces, especially snowy roads.
- Any person under 12 is strictly prohibited to use the EUC.
- Do not ride in bleak winter conditions.
- Riding backwards is dangerous. Try to avoid riding backwards unless safety guaranteed.
- Don't jump with the EUC.

Other sudden unpredictable risks may occur during use, please ride with care. Kingsong Intell Co.,LTD will not be responsible for any injuries caused by improperly operations of the device.

3. Features

3.1 Integrated trolley bar

3.2 Front illuminating light & Rear Brake light

3.3 APP

- For Android apk: Please access to our official website: www.kingsong.com, android apk can be downloaded.
- For IOS app: Please download from apple store, 'kingsong' is the exact one.



KingSong APP(Android)



KingSong APP(IOS)

3.4 Riding Mode

Riding Mode refers to the torque during start-off and braking. Expert Mode / Riding Mode / Learner Mode decelerate, turning and so on.

Riding mode and Expert mode is for rider who want more performance.

Experient mode can satisfy the group who wants to perform skills like jumping, also it can avoid pedal tilt back when climbing up or down steep hills.

3.5 Self-inspection and horizontal calibration

Firstly, switch on the EUC and keep it standing still on the ground until it finds it's balance. Then login to the APP and connect with the wheel to check the device information.

4. Precautions and Preparation

4.1 Precautions

- Please find a smooth surface to practice on.
- Warm up your body and ensure you're wearing safety gear such as helmets, knee pads, elbow pads and wrist guards.
- Ensure the wheel's battery level.
- Check the unicycle for imperfections such as any looseness, abnormal sound. We also highly suggest pushing the unicycle by hand to see if there's any friction between tire and the case of the wheel.
- Have a friend assist you if required.
- Please do not accelerate or decelerate rapidly, please also try to avoid over leaning or leaning too fast to prevent rider injury.
- Padding up the wheel during the learning process is highly recommended to ensure minimal scrapes on the exterior of the wheel.

4.2 How to use

4.2.1 Starting on the unicycle

Hold the wheel with one hand and ensure the wheel sits vertically on the ground. Unfold the pedals and switch on the wheel, it will self-balance forwards and backwards, if it does

not, please ensure the wheel is upright. Quick pressing the power button once the wheel is on will toggle different light modes.

4.2.2 Standing on the unicycle

With the pedals unfolded on both sides please stand on it with your preferred foot in the center of the pedal. Balance the wheel under you by keeping the other foot on the other side of the wheel. If you are left footed, keep your other foot at around 5 o'clock, and if you are right footed please keep the other foot at around 7 o'clock.

If you are having a difficult time balancing the wheel under you make sure you find a centre point of balance between these three points: a) bottom of the tire b) where the top of you leg touches the wheel c) your foot. Finding the balance point between these three points will allow you to more easily control the wheel under you.

4.2.3 Learning to ride forwards and braking

Whilst having the wheel balanced under you, use your non-preferred foot to push off and lean forwards to begin going forwards, once the wheel gets going please put your

non-preferred foot back onto the wheel. Focus on balancing and not falling left or right. Try to look ahead rather than down!

Have your hands out to help you balance!

To come to stop simply lean backwards and the wheel will slow down and come to a stop. You may dismount your non-preferred foot when standing.

Note: The harder you lean forwards or backwards will dictate the speed in which the wheel accelerates and decelerates.

4.2.4 Turning

When turning, lean your body gently to the side in which you want to go and straighten up when you want to go straight again! As you become more experienced at riding you will find other ways to turn such as; letting the wheel fall just side to side, just turning the lower part of your body, leaning your entire body. Advanced riders will usually incorporate a combination of these.

5. Battery

5.1 Temperature effect on battery

Battery power will vary with the temperature, mileage per charge will have slight difference under different temperature, following table is just for your reference.

Temperature(°C)	-20	-10	0	10	20	30	40	50
174Wh using ratio	40%	60%	80%	90%	95%	100%	105%	110%
MPU(Km)	8	12	16	16	19	21	21	22

MPC: Mileage per fully charge

5.2 Charging

Forbidden to use chargers not original from factory to avoid accident.

The device has a built-in lithium battery, no extra battery installation is required, just charge the device when it indicates low battery.

6. Care and Maintenance

6.1 Conservation

Don't place the unicycle in a wet condition.

If left unused, recharge the battery at least once a month to avoid the battery exhausted and maintain longevity of the

battery.

Meanwhile, the battery can't be dismantled, in case of changing, please contact us, we will provide you with professional services.

Clean the unicycle with wet cloths and detergent, gasoline, solvent or any other chemical reagent are forbidden.

Use the inflation tube to inflate the tire. Without the tube, you will not be able to pump air into the wheel.

7. Warranty

7.1 Limited Warranty

Manufacturer Kingsong Intell Co., LTD warrants the EUC by following limits.

Motor, Controller board for 365 days from the item departure from factory.

Battery package for 183 days from the item departure from factory.

Warranty is valid only within a total mileage of 2000km.

7.2 Limited Warranty

Above limited warranty DOES not include damage or lose not caused item's defectives (i.e. warranty only covers manufacturer defectives, Does not cover any damage, unauthorized modification, improper operation, disassembly

etc.).

7.3 After sale service

If need after sale service, please kindly contact your local dealer, distributor for assistant.



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