



KS-16S 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 it's 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!

Contents

- 1. Product Details-----01
- 2. Safety-----04
- 3. Features-----06
- 4. Precautions and Preparation-----07
- 5. Battery-----10
- 6. Maintenance-----12
- 7. Warranty-----13

1. Product Details

1.1 Diagram: KS-16S



- 1. Trolley Bar
- 2. Auxiliary Button
- 3. Charging Port
- 4. Power ON/OFF Button
- 5. Light Sensor
- 6. RGB Light
- 7. Pad

- 8. Speaker
- 9. Pedal
- 10. illuminating Light
- 11. Tire

1.2 Specifications

Model No	16S
Rated Speed	12.4 mph
Top Speed	21.7 mph
Mileage	≈49.7 miles
Climbing Angle	≤ 30°
Operating Temperature	-10 °C / +45 °C
Max Load	265 lbs
Charger Voltage	Input AC 80~240V, Output DC 67.2V 2A
Charging Time	≈7h
Rated Power	1200W
Product Size	18.2 x 7.7 x 19.9 inches
Distance from ground	4.7 inches
Tire Size	16 x 2.125 inches

Net Weight	38.4 lbs
Standard Accessory	1x Charger, 1x Manual, 1x Warranty card, 1x QC certificate

1.3 Main Functions

- Light sensor: Detecting light intensity, Lights on when it is dark, otherwise, it keeps off.
- BT/Speaker: BT makes us can access to riding information in app like mileage etc; Audio BT is activated automatically when power on, you can enjoy music during riding.
- Integrated trolley bar: wheels can be pushed to move rather than lift up with this integrated trolley bar make the wheel easier to be carried on.
- USB Port: Portable electrics can be charged Via this USB.
- RGB Light: Shinning during riding, indicates the battery level while it is on and stop.
- Over side-lean protection: When the lean angle of wheel exceeds 45°, motor will stop running and will recovery automatically once back it vertically.
- Buzzer and voice prompt: To ensure safety, there will be

voice prompt to alert rider: over-voltage, over-power, low battery etc. Voice prompt can be shut off through app, but buzzer beeps can't be.

- Tilt-back protection: When over-speed, low-battery, high temperature, the pedal will tilt back to prevent further acceleration.

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 STEP 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 falls.
- 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 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. King Song will not be responsible for any injuries caused by improper operations of the device.

3. Features

3.1 Integrated trolley bar

3.2 Front illuminating light & Rear Brake light

3.3 APP

- For Android app: Please access to our official website: www.kingsongpro.com, android app 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.

Experiment 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 your 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

WARNING

- Do not attempt to disassemble the battery.
- Do not allow the battery to get colder than -20°C or hotter than 50°C, e.g. in a car. Do not expose the battery to fire. Do not discard or destroy the battery. Refer to your local laws and regulations regarding battery recycling and/or

disposal.

- To extend the battery's life, charge it frequently and avoid draining the battery completely. At 30°C the battery range and performance is at its best; whereas at temperatures below 0°C range and performance are decreased. Typically, at -20°C range can be half that of the same battery at room temperature. Battery range will recover when temperature rises.

Temperature(°C)	-20	-10	0	10	20	30	40	50
Range	40%	60%	80%	90%	95%	100%	105%	110%

NOTE

A fully-charged 16S can be stored for about 120 to 180 days before requiring charging. Completely draining the battery may cause permanent damage to the battery. Electronics inside the battery record the charge-discharge condition of the battery; damage caused by over-discharge or under-discharge will not be covered by the Limited Warranty.

6. Maintenance

6.1 Cleaning

WARNING

- Make sure the 16S is powered OFF, the charge cable is unplugged, and the silicone cap on the charge port is tightly sealed before cleaning; otherwise you may expose yourself to electric shock or damage the electronic components. Do not wash your 16S with a power washer or high pressure hose.
- Wipe your 16S clean with a soft, wet cloth. For stubborn stains, use a toothbrush and toothpaste.

NOTE

- Do not wash your 16S with alcohol, gasoline, acetone, or other corrosive/volatile solvents. These substances may damage the appearance and internal structure of your 16S.

Storing

- Store the vehicle in a cool, dry place. Do not store it outdoors for extended periods of time. exposure to excessive sunlight or temperature extremes (both hot and

cold) may affect the vehicle's appearance, battery life, and tires.

7. Warranty

For warranty policy, please consult with the point of purchase or email to the manufacturer's service team:

support@kingsongpro.com

Again, we appreciate your purchasing of Kingsong products.

FCC Statement

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.

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

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.



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