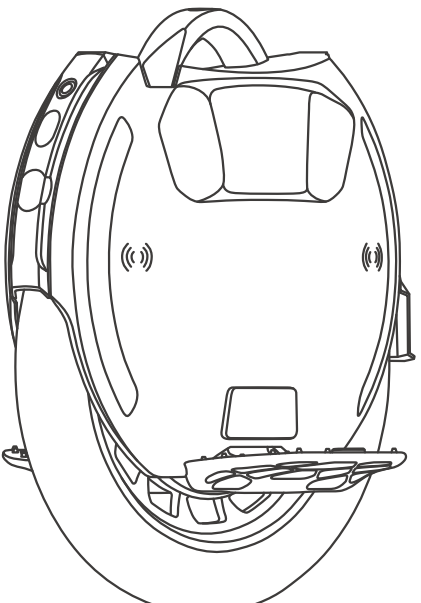

KS-18XL Pro User Manual

CAUTIONS

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!

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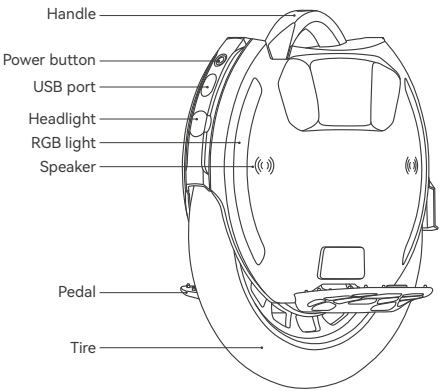
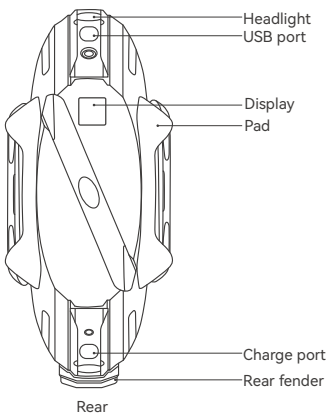
1. Product Details

1.1 Diagram: KS-18XL Pro





Accessories

Charging Adapter

User Manual

1.2 Specifications

Model No.	KS-18XL Pro
Rated power	2200W
Peak power	4600W
Max speed	Full speed unlocked after 10km. Max speed of 60km/h (Factory alarm settings: 18km/h first level alarm, 19km/h second level alarm, 20km/h third level alarm and warp plate).
Grade-ability	Around 40°
Battery	Rated Power: DC 72V Top Charging Voltage: DC 84V Rated Capacity: 1512Wh Battery pack with equalization, overcharge and short circuit protection.
Mileage	Around 140kms
Max load	120kg
Adapter specs	Input AC 100~240V / Output DC 84V 1.5A
Charging time	Around 14hrs

Working temperature	-10℃ / +60℃
Color	White, Black
Appearance & weight	
Product size	495(L)*225.3(W)*590(H)mm
Package size	555(L)*240(W)*725(H)mm
Pedal distance from the ground	160mm
Tire size	18*2.5inch
Weight	Around 25.4kg
Port	Charge port*2, Power button, Light sensor, USB port*2.
Display Panel	8*8 dot matrix screen, displaying battery, speed and other information
	Protective Measures
Lift sensor	Lift sensor accurately senses and determines when wheel is lifted off the ground to stop tire rotation.
Roll protection	55° left and right side. (Motor stalls when over 55°)

	Place the machine vertically on the ground will restart automatically, no need to restart manually.
Speed limit protection	Beep alarm or voice alarm when exceed limit speed.
Low battery protection	Low battery protection activated on 30% battery, speed will decreases linearly; when the battery is lower than 5%, voice alarm for charge, when battery at 0%, the front part of the pedal will rise to decelerate until full stop.
Higher temperature protection	When the motherboard reaches 80℃ it will result tilt-back. When the motor reaches 120℃ it will result in tilt-back.
Motherboard Waterproof Protection	The motherboard is treated with sealant, greatly enhancing the waterproof performance.
Pedals anti-slip protection	Uniform force on the pedals with raised small columns which is more effective than traditional sand sticking to protect anti-skid, greatly improving safety performance and riding experience.
Power pad	The protection pad are ergonomically designed to use the safe foams, which is moderate, easy to accelerate and decelerate and also better to protect the body.

Alarm & Features	
Switch On/Off	Short press power key: turn on Long press: hear a click then turn off
Battery indicate	Led shows battery level when EUC power on at rest.
Voice remind	Custom voice system, you can freely choose a variety of voice prompt sounds.
Hardware Features	
Motherboard	Brand-new motherboard architecture, the driver board is designed separately on the aluminum substrate, which has better heat dissipation. 12 brand-new Toll packaged low-resistance MOS provide good power supply for high-power motors. The turbo variable frequency fan automatically adjusts the air volume according to the temperature of the MOS tube. The modular design of the control board and power amplifier board provides good support for the whole system.
Music Bluetooth System	Music Bluetooth uses the latest 5.4 technology to provide better sound quality for music playback
Data Bluetooth System	Adopt 5.1 Bluetooth module, with stronger compatibility, faster and more stable data transmission, and support system OTA

Bluetooth speaker	Full coverage of RGB lights, music spectrum beating, riding more cool.
Charge	Provides two charging ports, can be plugged into two chargers to quickly charge the device, maximum support 10A charging
Colorful Lights	4 colorful lights cover the body of the car, continuing the music spectrum, making riding with music even cooler
Lighting system	4W high-power LED lighting + 1W*2 brake lights, independently designed large-caliber lamp cups, making night riding safer
USB output	USB can be inserted into a USB drive to play music or charge a mobile phone
Battery	Self-developed BMS intelligent management system, temperature, voltage, current, real-time monitoring, you can view battery related information in real time through the APP
Find My	Find My network uses hundreds of millions of Apple devices around the world to build a positioning system to realize vehicle positioning function
Package	
Standard accessories	1*Charger, 1*User manual, 1*QC certificate

2. Safety Instructions

● 18XL Pro is an entertainment product, Which is different from motor vehicles driving on the road. Before mastering riding skills, you need to practice. Kingsong is not responsible for any injuries or damage caused by a rider's inexperience or failure to follow the instructions in this document.

● Please understand that you can reduce the risk by following all the instructions and warnings in this manual, but you cannot eliminate all the risks. Remember that whenever you ride the 18XL Pro you risk injury or death from loss of control, collisions, and falls. When entering into public spaces always comply with the local laws and regulations. As with other vehicles, faster speeds require longer braking distance. Sudden braking on smooth surfaces could lead to wheel slip, loss of balance, or falls. Be cautious and always keep a safe distance between you and other people or vehicles when riding. Be alert and slow down when entering unfamiliar areas.

● Respect pedestrians by always yielding the right of way. Pass on the left whenever possible. Avoid startling pedestrians. When approaching from behind, announce yourself and slow

down to walking speed when passing.

- In places without laws and regulations governing selfbalancing electric vehicles, comply with the safety guidelines outlined in this manual. Kingsong is not responsible for any property damage, personal injury/death, accidents, or legal disputes caused by violations of the safety instructions.

- Make sure each new rider wears a helmet and other protective gear.

- Before each ride check for loose fasteners, damaged components, and low tire pressure. If the 18XL Pro makes abnormal sounds or signals an alarm, immediately stop riding. Contact your dealer/distributor for service.

- Always wear a helmet when riding. Use an approved bicycle or skateboard helmet that fits properly with the chin strap in place, and provides protection for the back of your head.

- Do not attempt your first ride in any area where you might encounter children, pedestrians, pets, vehicles, bicycles, or other obstacles and potential hazards.

- Use caution when riding in new environments.

- To reduce risk of injury, you must read and follow all "WARNING" notices in this document. Do not ride at an unsafe speed. Under no circumstance should you ride on roads with motor vehicles. Always follow these safety instructions:

A) The following people should not ride 18XL Pro:
   i. Anyone under 18 years old or above 50 years old.
   ii. Anyone under the influence of alcohol or drugs.
   iii. Anyone who suffers from disease that puts them at risk if they engage in strenuous physical activity.
   iv. Anyone who has problems with balance or with motor skills that would interfere with their ability to maintain balance.

B) Comply with local laws and regulations when riding this product. Do not ride where prohibited by local laws.

C) To ride safely, you must be able to clearly see what is in front of you and you must be clearly visible to others.

D) Do not ride in the snow, in the rain, or on roads which are wet, muddy, icy, or that are slippery for any reason. Do not ride over obstacles (sand, loose gravel, or sticks). Doing so could result in a loss of balance or traction and could cause a fall.

E) Do not accelerate or decelerate suddenly. Do not accelerate when the 18XL Pro tilts back or sounds an alarm. Do not attempt to override the speed limiter.

F) While the Kingsong App is useful, do not allow the App to distract you while you are riding. Always pay attention to your surroundings.

- Never restart and ride your 18XL Pro after it has indicated an empty battery condition or powered off due to low battery. Your 18XL Pro may not have enough power to keep you balanced, especially if you demand a lot of power at once. If you restart and continue riding, you risk falling. Also, you risk damaging your batteries, resulting in reduced battery life and capacity.

- Do not insert the power cord if the charge port is wet.

● Use a surge protector when charging to help protect your 18XL Pro from damage due to power surges and voltage spikes. Do not use a charger from any other product.
● Always shut down your 18XL Pro and unplug the AC Power Cord before performing any maintenance.
● Do not modify your 18XL Pro. Modifications to your 18XLPro could interfere with the operation of the 18XPro, could result in serious injury or damage, and could void the Limited Warranty.

3. APP

- Android APP: Please download from Google play, ‘kingsong’ is the exact one.
- IOS APP: Please download from apple store, ‘kingsong’ is the exact one.
- Mini program: Scan on WeChat and use the mini program.

Android

IOS

Wechat Mini Program

4. Find My

4.1 Quick instructions

4.1.1 Turn on the device

Click the power button **3** times to turn on the Find My device.

4.1.2 Pair the device

- Open the Find My app.
  Hold the device close to your iPhone, tap the Items tab, tap + and then Add Other Item.
- Tap Connect.
- Type a name for your device, select an emoji.
- Tap Agree to acknowledge that this item will be linked to your Apple ID.
- Tap Finish.

4.1.3 Enable Lost Mode

- Open the Find My app, tap the Items tab, then tap your item.
- Under Lost Mode, tap Enable.

Read the instructions, tap Continue and enter a phone number or email address.

Confirm the information, customize the lost message, and tap Activate to complete the setup.

4.1.4 Remove the device

- Open the Find My app, tap the Items tab, then tap your item.
  Tap Remove Item and then tap Remove to complete the

operation.

Note: After removing the device in the app, it will not shut down and will be in the pairing mode.

If there is no re-pairing within 10 minutes, the device will leave the pairing state, and the device and app cannot be paired atthis time. If you need to pair the device, you need to click the device button once, the device willing. At this point, the device enters the pairing state and can bere-paired with the app.

4.2 Main Functions

4.2.1 Locate your item

If your missing item isn't nearby, the Find My app can still help you track it down using the Find My network - hundreds of millions of iPhone, iPad, and Mac devices around the world. Nearby devices securely send the location of your missing device to iCloud, then you can see where it is in the Find My app. It's all anonymous and encrypted to protect everyone's privacy.

4.2.2 Play Sound

- Open the Find My app, tap the Items tab, then tap your item.
- Click Play Sound, and the device will beep, so you can find the item easily.

4.3 Instructions for device power button

4.3.1 Device operation

1. Turn on the device
   Click the power button **3** times to turn on the Find My device.
2. Turn off the device
   Click the power button **4** times to turn off the Find My device.
3. Learn more
   Click the power button **5** times to enter "learn more" mode.
4. Reset the device
   Click the power button **6** times to reset the Find My device.

4.3.2 The device enters the pairing state again

After removing the device from the app, the device will beep, will not shut down, and will be in pairing mode. If it is not paired within 10 minutes, the device will leave the pairing state. If you need to pair devices at this point, click the device button **6** times and the device beeps. At this point, thedevice enters the pairing state and can be paired with the app again.

4.4 Locate & Notifications

4.4.1 Find item When It's Nearby:

Open Find My app and select the "Items" tab or open the Find Items app on your Apple Watch.
Tap on your item from the list.
Tap "Play Sound" to make your item beep.
Tap "Stop Sound" to stop the beeps once you find.

4.4.2 Find item's Location:

Open Find My app and select the "Items" tab or open the Find Items app on your Apple Watch.
Tap on your item from the list.
Your item's location will appear on the Map with a time stamp of when the iterm was located.
To navigate to the item's location, tap “Directions" to open Apple Maps.

4.4.3 Enabling "Notify When Left Behind":

Open Find My app and select the "Items" tab or open the Find Items app on your Apple Watch.
Tap on your item from the list.
Under "Notifications" enable the "Notify When Left Behind" toggle.
You will receive a notification when you leave your item behind and it's no longer in range of your device.

4.4.4 Enabling "Notify When Found":

Under "Notifications", enable the "Notify When Found" toggle.
When your item is seen by another Find My network device, you will receive a notification of its location.
Note :" Notify When Found" can only be activated when your item is out of range.
Important tips: When pairing a device with Findmy app, the

phone will link to the Apple server. Pairing may fail because of network problems. The following actions are recommended:
1. Change the phone's network, such as switching between WiFi and network;
2. Restore the device to factory Settings After the device is powered on, press the key five times and hold it for the fifth time. then the device will play a tune and finish the factory reset. Release the button to complete the reset.
3.Pair with Findmy app.

4.5 Legal notice

To use the Apple Find My app to locate this item, the latest version of iOS, iPadOS, or macOS is recommended. The Find Items app on Apple Watch requires the latest version of watchOS.
Use of the Works with Apple badge means that a product has been designed to work specifically with the technology identi fied in the badge and has been certified by the product manufacturer to meet Apple Find My network product specifications and requirements. Apple is not responsible for the operation of this device or use of this product or its compliance with safety and regulatory standards.
Apple, Apple Find My, Apple Watch, Find My, iPhone, iPad, iPadOS, Mac, macOS and watchOS are trademarks of Apple Inc.

IOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under license.

4.6 FAQ:

4.6.1 When can the device be located?

When an item is separated from its owner for a period of time, it can be found by other Apple devices that are part of the Find My network, and the owner can start to get the location of the device.

4.6.2 How is the device designed to discourage unwanted tracking?

If any Find My network accessory separated from its owner is seen moving with you over time, you'll be notified in one of two ways:

1. If you have an iPhone or iPad, Find My will send notifica tions to your Apple device. This feature is available on iOS or iPadOS 14.5 or later.
2. If you don't have an iOS device or a smartphone, a Find My network accessory that isn't with its owner for a period of time will emit a sound when it's moved.

These features were created specially to discourage people from trying to track you without your knowledge.

4.6.3 How is my privacy protected?

Only you can see where your item is. Your location data and

history are never stored on the item itself. Devices that relay the location of your item also stay anonymous, and that location data is encrypted every step of the way.

4.6.4 What is the Find My network? And how does it work?

The Apple Find My network provides an easy, secure way to locate compatible personal items on a map using the Find My app on your iPhone, iPad, Mac, or the Find Items app on Apple Watch. Simply pair your compatible product with the Apple Find My app to view it right alongside your Apple devices.
If your item ever goes missing, you can put it in Lost Mode to display a message and contact information to anyone who might find it. The Find My network is encrypted and anonymous, so no one else, not even Apple or the mark of your personal item, can view its location.

5. Learn to Ride

5.1 Precautions

- Please find a 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

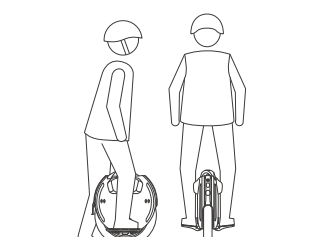
looseness, abnormal sound. We also highly suggest pushing the unicycle by ahnd to see if there's any friction between tire and the case of the wheel.

- Please do not accelerate or decelerate rapidly, please also try to avoid over leaning or leaning too fast to prevent rider injury.

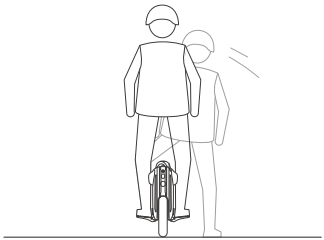
5.2 Start Learning to Ride

- Like riding a bicycle or unicycle, it takes a certain skill level to ride Kingsong 18XL Pro. For different customers, it may take 2-20 hours to ride well.

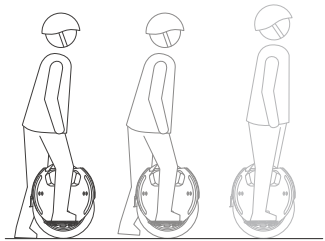
01. Get used to the way Kingsong 18XL Pro: step on one pedal, then swing your leg back and forth to feel the controls.



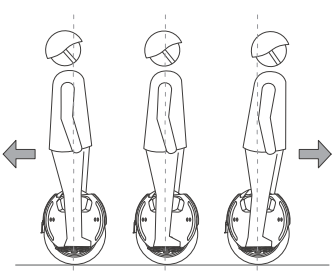
02. Using a friend, wall, or handrail: put both feet on Kingsong 18XL Pro and practice riding slowly forward and backward.



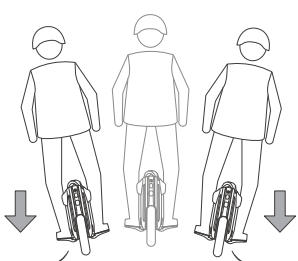
03. With one foot on a pedal, slowly lean forward. Push off with your other foot and glide for 1-2 seconds.



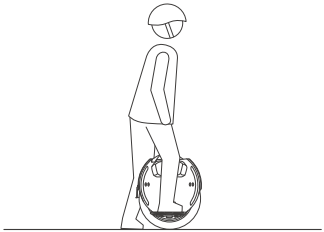
04. After you are able to comfortably glide for a few seconds, try gliding for 10-20 ft (3-5 m) with both feet on the pedals.



05. Practice travelling forward and backward by controlling your body's center of gravity. The further you lean, the faster you go.



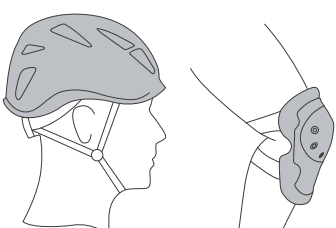
06. Turn by pressing harder on one pedal than the other, and by shifting your weight slightly.



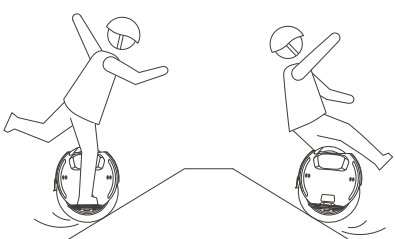
07. To get off: come to a stop by centering your weight, then step off Kingsong 18XL Pro with one foot.

6. Warning

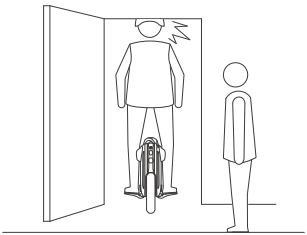
- You must read and understand the Warning Instructions section of this manual before attempting to ride the 18XL Pro.



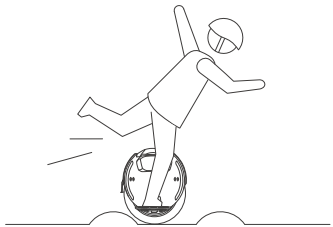
- Always wear a helmet and protective clothing when riding.



- Use caution when riding on slopes. Avoid riding on steep slopes.

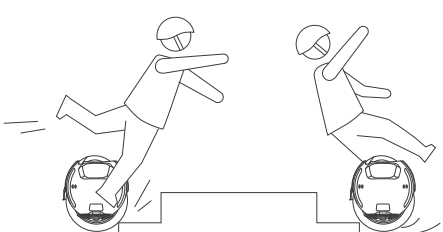


- Watch your head when passing through doorways.

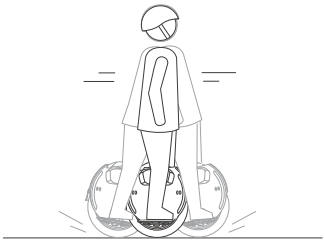


- Use caution when riding over any changes in terrain.

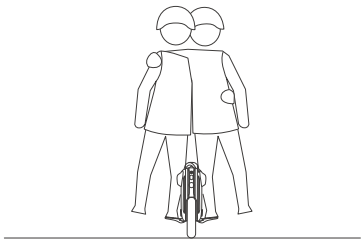
- Do not ride on limited traction surfaces.



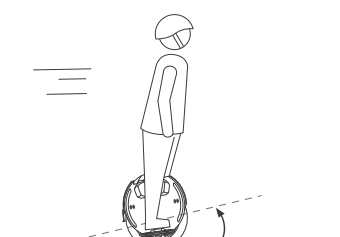
- Do not ride over holes, curbs, steps, or other obstacles.



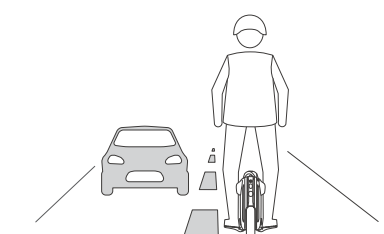
- Do not rock back and forth or shift your weight abruptly.



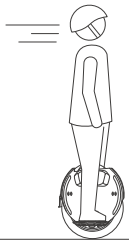
- Do not ride double or carry any passengers.



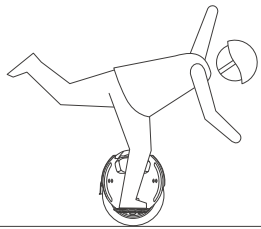
- Do not accelerate when the Kingsong 18XL Pro tilts back or sounds an alarm.



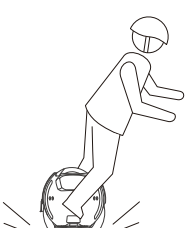
- Do not ride on public roads, motorways, or highways.



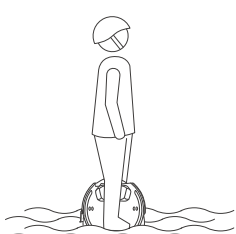
- Do not exceed the speed limit of 60km/h.



- Do not ride with single leg on the pedal



- Maintain contact with the ground at all times. Do not jump or attempt stunts.



- Do not get wet. Do not ride through puddles or other bodies of water.

7. Maintenance

7.1 Cleaning

WARNING

● Make sure the 18XL Pro 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 18XPro with a power washer or high pressure hose.

● Wipe your 18XL Pro clean with a soft, wet cloth.
For stubborn stains, use a toothbrush and toothpaste.

NOTE

● Do not wash your 18XL Pro with alcohol, gasoline, acetone, or other corrosive/volatile solvents. These substances may damage the appearance and internal structure of your 18XL Pro.

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.

7.2 Battery Maintenance

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(℃)	-20	-10	0	10	20	30
Range	40%	60%	80%	90%	95%	100%

NOTE

A fully-charged 18XL Pro 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.

8. Warranty

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

support@szkingsong.com

Again, we appreciate your purchasing of Kingsong products.

This equipment has been tested and found to comply with thelimits 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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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

Kingsong Technology Co., LTD.

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