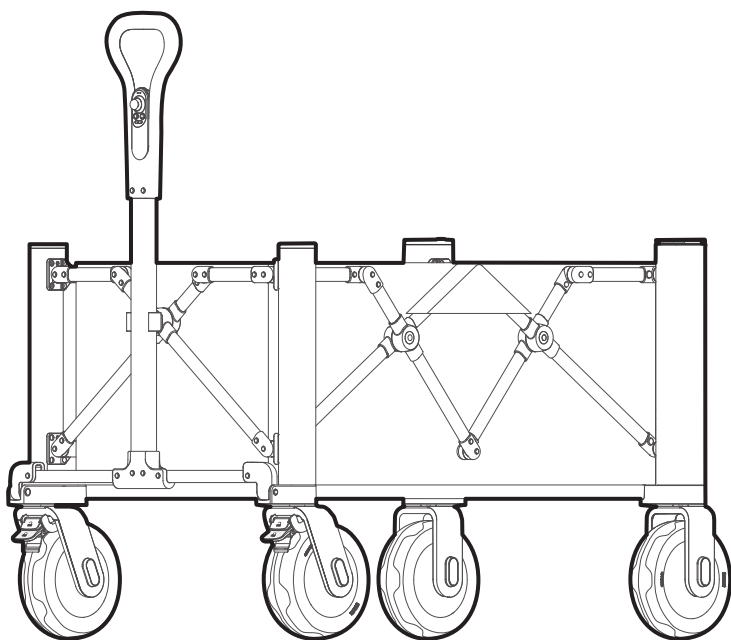


# LITEFAR ORION

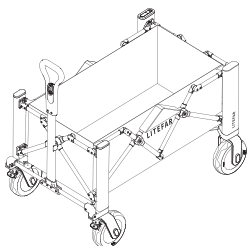


## REMOTE CONTROL WAGON

USER MANUAL

# 1. WHAT'S IN THE BOX

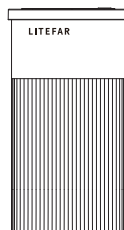
Notice: The A24 battery is packaged and shipped separately.



1 x Smart Wagon



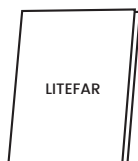
1 x LumiMote



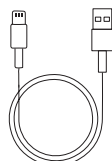
1 x A24 Battery



1 x Bed Fabric



1 x User Manual



1 x Cable

## 2. PRODUCT OVERVIEW

① A24 Battery

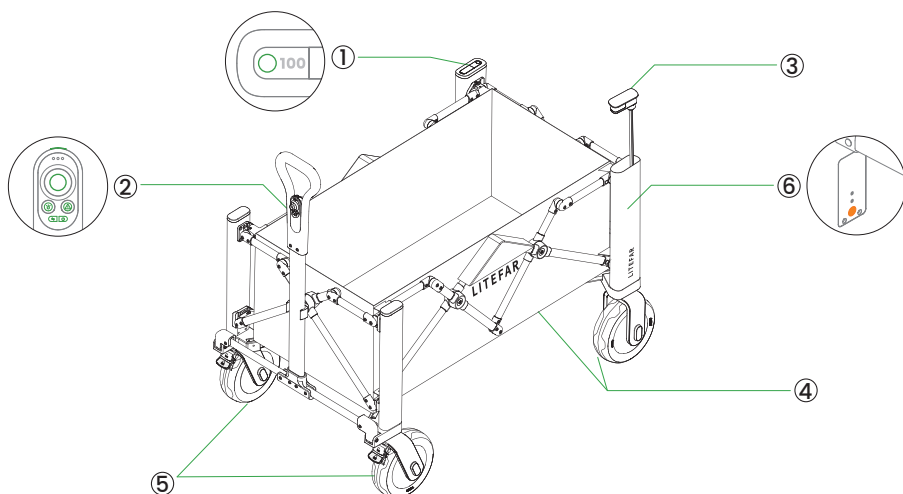
② LumiMote

③ MagLight

④ Hub Motors

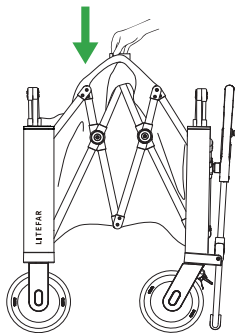
⑤ Swivel Wheels

⑥ Control Board

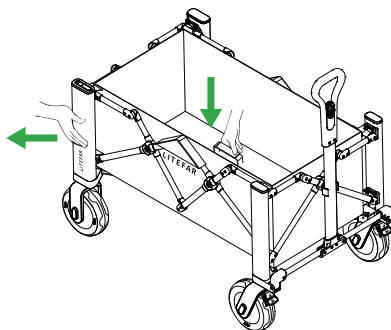


# 3. QUICK START GUIDE

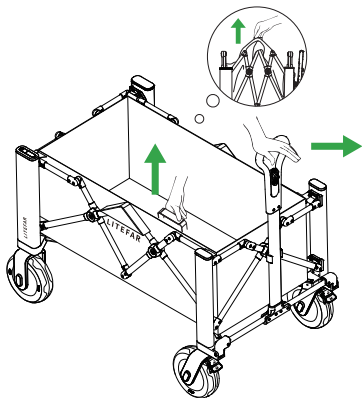
## [3.1 Expand & Collapse]



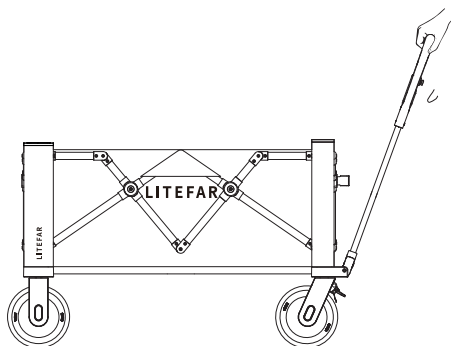
1. Place the wagon on a flat surface.



2. Expand by holding the rear pillar and pressing down the center.



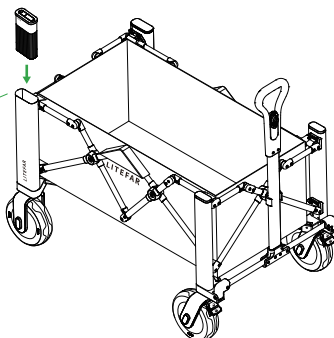
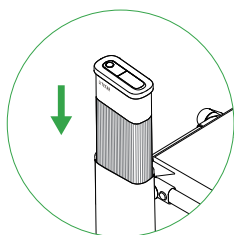
3. Remove the handle, lift the center pull to fold.



4. [Non-electric Mode] Start using.

## [3.2 Install the Battery]

- Insert the A24 battery—do not insert it backwards.
- Ensure the side with the logo faces outward.

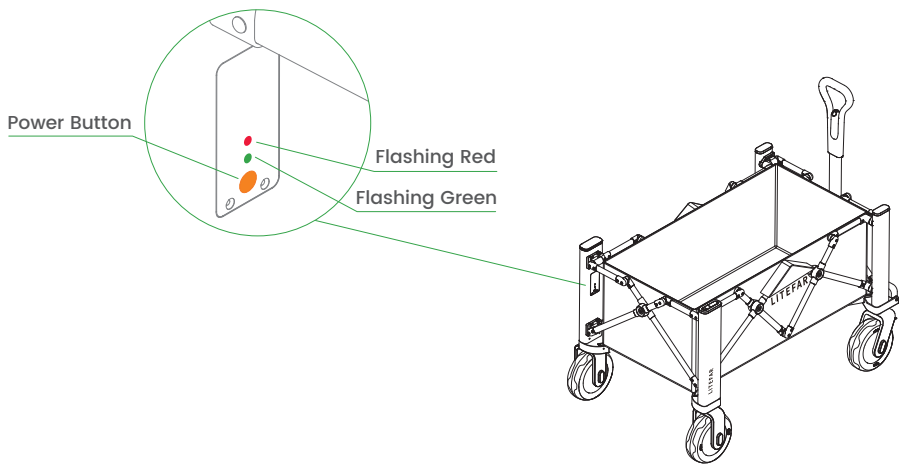


### [3.3 Initial Pairing]

Signal Mode	Bluetooth Low Energy 5.4
Remote Control	LumiMote
Input Voltage	5-20V
Use	Commercial

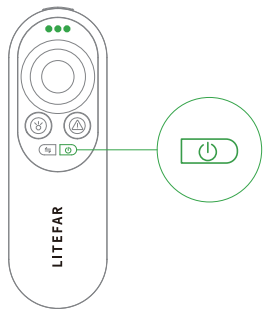
#### Step 1:

Press and hold the power button on the wagon to turn it on. The wagon will enter Bluetooth pairing mode. Two indicator lights will flash, and the wagon will beep continuously.



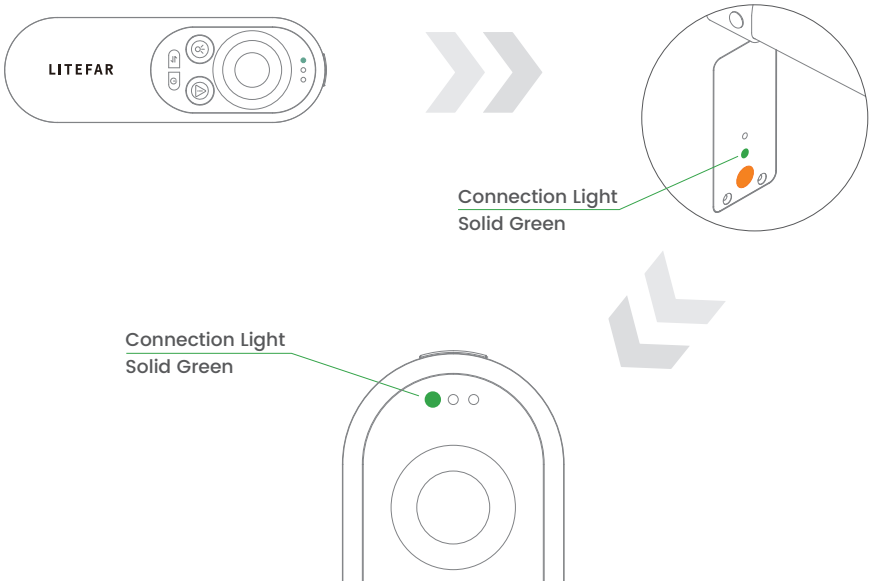
#### Step 2:

Press and hold the remote power button for 5 seconds to enter Bluetooth pairing mode. Three indicator lights will flash.



### Step 3:

Point the remote at the wagon controller. Pairing is successful when the beeping stops and both the wagon and remote connection indicators turn solid green.



Notes: Pairing is only needed on first use. After that, the remote and wagon connect automatically.

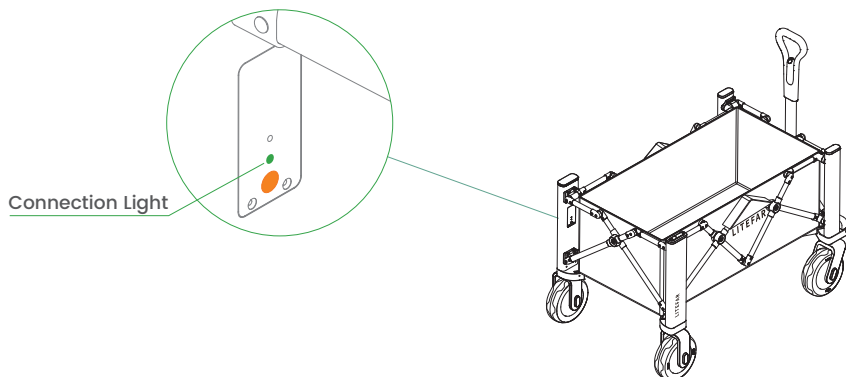
### Lost of Remote Control

1. Email [support@litefar.com](mailto:support@litefar.com) to purchase a replacement remote.
2. Pair the new remote with your wagon upon receipt.

## [3.4 Power On]

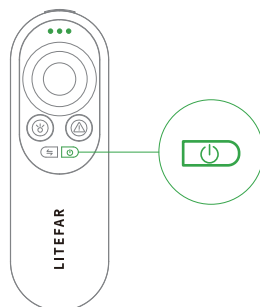
### Wagon

Press and hold the power button for 2 seconds to power on. The wagon will automatically connect to the paired remote.



## Remote Control

Press to power on. The remote will automatically pair with the wagon, and the connection light will turn green.



## [3.5 Start]



3D Joystick	Action	Operation
Basic Movements	Move	Gently push the joystick
	Inertial Stop	Release to stop
Direction Control	Forward/Reverse	Tilt the joystick forward or backward
	Left/Right	Tilt the joystick left or right
Speed Control	Speed Up	Push the joystick forward to accelerate
	Slow Down	Push the joystick backward to slow down

## Remote Control Operation:

- Turn on the wagon and remote control, ensure they are connected.
- Push the joystick— the wagon will move accordingly.

### [3.6 Speed Adjustment]

- **Forward:** 0 – 2.0 m/s (0 – 4.5 mph)
- **Reverse:** 0 – 1.0 m/s (0-2.2 mph)



Notes: Prioritize forward movement for best performance and safety. Use reverse briefly for obstacles or adjustments; prolonged reverse driving is not recommended.

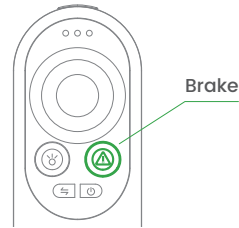
### [3.7 Braking]

#### 1. Electric Brake

Press the Brake button to stop the wagon.

#### 2. Electric Lock

Press and hold the Brake button for 3 seconds to lock or unlock the wagon. When locked, the joystick cannot move the wagon.

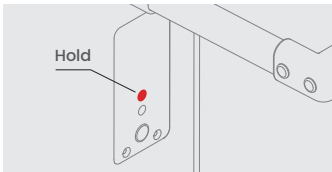


#### Connection Indicator



#### Remote Control

Indicator Status	Wagon Status
● Solid Red	Electric lock is on

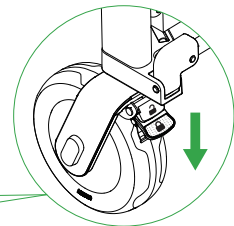
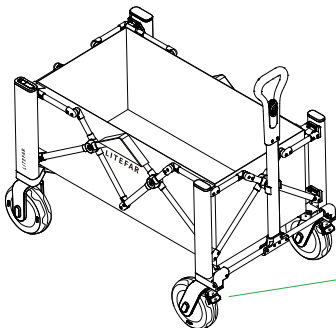


#### Wagon

Indicator Status	Wagon Status
● Solid Red	Electric lock is on

#### 3. Foot Brake

- Press the pedal with the "Lock" icon to lock the front wheel.
- Press the pedal with the "Unlock" icon to release the front wheel.



Notes: Always lock the foot brake when stopping on a slope to prevent the wagon from sliding.

### [3.8 Mode Switch]

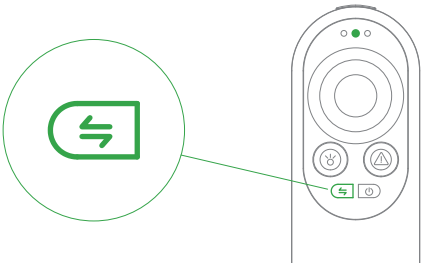
#### Mode Type

The wagon features two modes:


- **Regular Remote Mode (Default):** Allows both remote control and manual pulling.
- **Smart Mode:** Supports remote control only; manual pulling is disabled.

#### Mode Switching

Press the Switch Button to switch between Regular Mode and Smart Mode.



#### Mode Indicator

	
Indicator Status	Wagon Status
● Green	Regular remote mode is on
● Blue	Smart mode is on

### [3.9 Important Modes Comparison]

#### Smart Mode vs. Regular Remote Mode Comparison

Feature	Smart Mode	Regular Remote Mode
Light Indicator	Blue	Green
Ideal Environment	Open spaces	Complex environment
Manual Intervention	✗	✓
Load-bearing performance	Heavier	Lighter
Speed Range	0-2.0m/s	0-2.0m/s
Slope Capacity	8°-20° Slope	Flat or less than 8°
Cruise Control	✓	✓
Automatic Power Adjustment	✓	✗
Straight-line Walking	✓	✗
Uniform Uphill Speed	✓	✗
Uniform Downhill Speed	✓	✗
Initiating a Spot Turning	Excellent	Performance decreases as load increases

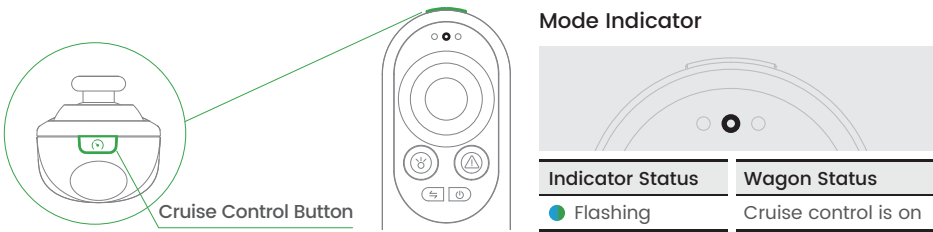
Notes:

- Hand-pulling is not allowed in Smart Mode, as it triggers power adjustments, causing resistance.
- Mode switching is disabled during Cruise Control. Exit Cruise Control before switching modes.



### [3.10 Cruise Control]

- Press the Cruise Control button to activate.
- When activated, the mode indicator will flash.
- Use the joystick to adjust speed and direction while in Cruise Control.
- Press the Cruise Control button again to exit.



Notes: When the mode indicator flashes green, Cruise Control is activated in Regular Remote Mode. When it flashes blue, Cruise Control is activated in Smart Mode.

### Cruise Control Speed Level

Speed Level	Forward	Reverse
1	0.5m/s	0.5m/s
2	1.0m/s	1.0m/s
3	1.5m/s	/
4	2.0m/s	/

Notes: • Push the joystick forward to speed up or backward to slow down by one level.  
• In Smart Mode, use Cruise Control in open spaces and watch for pedestrians.

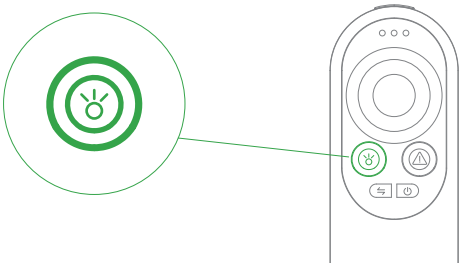
### [3.11 Light System]

#### 1. Flashlight

Press the Light button to turn the flashlight on or off.

#### 2. SOS Light

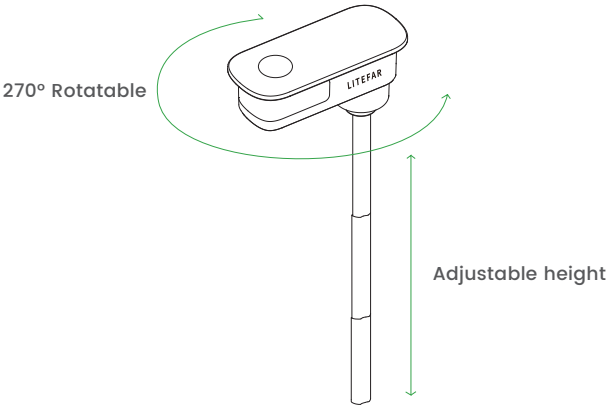
Press and hold the Light button for 2 seconds to activate SOS mode. Press again to turn it off.



### 3. Telescopic Lantern

#### · Adjusting Height & Angle

Pull or press the lantern's side edges to adjust its height.  
Gently rotate it up to 270° to set your desired angle.



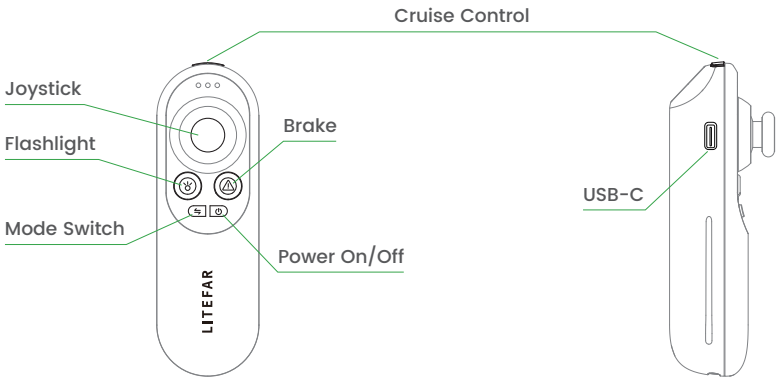
#### · Touch Switch

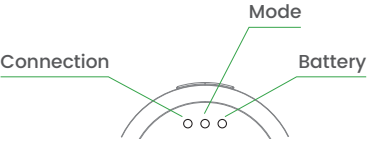
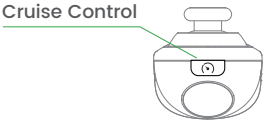
Tap the top button to turn on/off the lantern.  
Hold the button to adjust brightness smoothly (stepless dimming).

















## 4. OPERATION INSTRUCTIONS






### [4.1 Remote Control]





[4.2 Light Indicator]

Remote Control	
Indicator Status	Device Status
	Connection
 Green	Wagon & Remote Control connected
 Flashing green	Paring
 Red	Motor locked
	Mode
 Green	Regular Mode
 Blue	Smart Mode
 Flashing Green	Cruise Control (Active in Regular Mode)
 Flashing Blue	Cruise Control (Active in Smart Mode)
	Battery
Flashing Green 	Charging
Green 	Battery level >20% /Fully charged
Red 	Battery level 5%-20%
Flashing Red 	Battery level <5%

Wagon	
Indicator Status	Device Status
	Hold
 Red	Motors are locked
	Connection
 Green	Wagon & Remote Control connected
 Flashing Green	Paring

A24 Battery	
Screen Status	Device Status
0 - 100	Battery level display

# 5. SPECIFICATIONS

Product	LITEFAR Orion
Model	EW4RC01
Dimensions	<b>Unfolded:</b> 37" × 24" × 39" (94cm × 61cm × 100cm) <b>Folded:</b> 12" × 10" × 32" (30cm × 25cm × 80cm)
Weight	41 lbs/18kg
Material	Aluminum Alloy, Carbon Steel, GFR Nylon
Volume	140L
Load Capacity	180 lbs / 80kg
Wheel	<b>Front:</b> 7.5" 360° All-Terrain Wheels <b>Rear:</b> 7.5" Motor Wheels
Motor	500W Brushless DC Hub Motor
Speed	<b>Forward:</b> 0-2.0 m/s, <b>Backward:</b> 0-1.0 m/s
Water Resistance Rating	IPX6 (Water-resistant, not submersible)
Battery Range	6 miles / 10km
Product	A24 Battery
Model	A2424B
Battery Cell	Ternary Lithium
Dimensions	1.5" × 3.5" × 6.6" (39mm × 90mm × 168mm)
Weight	630g (1.37 lbs)
Material	Fire-resistant ABS
Capacity	89Wh (24,000mAh)
Output	USB-C MAX 100W, USB-A MAX 30W
Input	USB-C MAX 100W
Charging Time	1 Hr
Battery Life	80% After 500 Cycles
Product	LumiMote
Model	BB0L-01
Dimensions	4.6" × 1.5" × 1.5" (116mm × 38mm × 39mm)
Weight	65g
Material	PC/ABS
Power Source	Lithium battery
Operating Range	Up to 30 meters (unobstructed)
Frequency Range	2.4GHz
Flashlight	300 Lumens
Beam Distance	Up to 50 meters
Charging Time	1 Hr

# 6. TROUBLESHOOTING GUIDE

Issue	Solution
Lost Connection	<ul style="list-style-type: none"><li>• Ensure the remote control is within signal range. Move closer to the wagon until the connection light on RC is green.</li><li>• If the issue persists, restart both the remote control and the wagon, and try reconnecting.</li></ul>
Wagon Stuck or Not Moving	<ul style="list-style-type: none"><li>• Ensure the battery is charged and properly installed.</li><li>• Ensure the remote control is turned on and connected with the wagon.</li><li>• Check for obstacles blocking the wheels or undercarriage.</li><li>• Inspect the wheels for damage or debris.</li><li>• Switch to Regular Mode and manually help the wagon change direction while using the remote control.</li><li>• In certain conditions, stop the wagon and use manual force to pull it forward.</li></ul>
Motor Resistance	<ul style="list-style-type: none"><li>• Do not use the handle while the wagon is in Smart Mode. Switch to Regular Mode for manual operation.</li><li>• Ensure the motor is not locked. Press and hold the brake button on RC to unlock the motor.</li></ul>
Unable to Fold the Wagon	<ul style="list-style-type: none"><li>• Make sure to remove the handle from the latch before folding the wagon.</li><li>• Manually adjust the swivel wheels to achieve the optimal storage size.</li></ul>
Unable to Unfold the Wagon	<ul style="list-style-type: none"><li>• If you feel resistance while unfolding the wagon, gently lift the rear side pillars while pressing down on the center of the wagon.</li></ul>

# 7. IMPORTANT SAFETY GUIDELINES

Learn Before Use	Before operating the product, thoroughly read the user manual and watch tutorial videos to learn proper usage. Ensure you are capable of handling the product to prevent any injuries or damage due to improper operation.
Check Before Use	Inspect your wagon for any loose parts or damage before each use.
Load Limit	Recommended load limit: 180lbs(80kg)maximum. Do not exceed the recommended load limit as it can strain the motor.
User Restrictions	Intended for adult operation only. Not recommended for children.
Terrain Caution	Avoid using the wagon on slippery or unstable surfaces like wet grass, snow, and ice. These conditions can reduce traction, affect steering and braking, and compromise stability. Do not use the product on stairs.

<b>Slope Caution</b>	Do not use the wagon on steep slopes exceeding a 20° grade. When operating on steep terrain, it is recommended to switch to Smart Mode or manually pull the wagon in Regular Mode for better control.
<b>Proper Loading</b>	Distribute weight evenly and secure items to prevent shifting or falling off. Designed for carrying goods only; not recommended for transporting people.
<b>Parking</b>	Ensure the wagon is stationary on flat ground to prevent it from sliding; turn off the wagon button or lock the motor to prevent unintended wagon movement from accidental remote control activation.
<b>Electric Brake</b>	Electric braking mode will continuously consume power, so it's recommended to use the manual wheel locks when parking.
<b>Avoid Modifications</b>	Do not alter the wagon, battery, and remote control, as it may affect its safety and functionality.
<b>Weather Conditions</b>	Do not use this product during thunderstorms. Be cautious in adverse weather conditions, the wagon's performance may vary.
<b>Water Exposure</b>	While the motor wheels are IPX6 water-resistant, avoid submerging them in water or prolonged exposure to rain, snow, or humid environments. Use a waterproof cover or rain cap when using the wagon in rainy or snowy weather. The power pillars are not waterproof. When removing the battery or lantern, prevent water from entering the pillar to avoid short circuits.
<b>Damage Caution</b>	Overloading, improper folding, or using unapproved parts can lead to product damage and safety hazards. Always use officially approved parts and adhere to the provided usage instructions.

<b>Storage Caution</b>	<p>*Make sure to turn off the wagon power and store in a cool, dry place when not in use.</p> <p>*Remove the battery and store it in a safe, dry and well-ventilated area if not use for a long time.</p> <p>*Avoid direct sunlight exposure. Store the product indoors or under cover to protect from extreme weather damage.</p> <p>*Do not store the product near fire sources and flammable, explosive, or other hazardous materials.</p>
<b>Keep Clean</b>	<p>*Regularly clean the wagon to prevent dirt buildup. Do not use harsh chemicals.</p> <p>*Use a soft rag to wipe the frame.</p> <p>*Do not splash water on the two power pillars when cleaning the wagon with a hose.</p>

## **8. FCC WARNING**

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. NOTE 1: 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:- 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. NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.