

ROBOTEER

Driving To A Better Life



Portable/Comfortable/Safe

The middle-class group with higher consumption levels, the new wave of elderly people who enjoy life, pursue fashion and active travelling, and the group with lower limb disabilities.



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How to Use

PART01

Overall Product Description



Product Overview | Product Features | Main Functions



E80				
Core Gene	Portable, comfortable and smart			
Target Audience	Main users: Middle-class group with higher consumption levels, trendy elderly people who enjoy life, pursue fashion and active travelling, and group with lower limb disabilities;			
Usage Scenarios	Car boot \ plane \ train \ cruise \ high-speed train			
Core Selling Points	Ultimate portability	Outstanding driving experience	Safe and reliable	Intelligent interaction
Support Point	1. Net weight of the whole vehicle ≤ 35lbs; 2. Two-step folding and direct locking; 3. Can be boarded on an aeroplane, Approved for airplane travel; 4. Industry-first quick-release and quick-loading backpack.	1. 3D three-dimensional high rebound sponge cushion, dispersed body pressure, sit for a long time without getting tired; 2. Ergonomic backrest with 106 degrees back and 4 degrees back bionic curve design, scientific sitting posture to improve sleep, heart rate, health, providing scientific seating posture to improve sleep, heart rate, and overall health; 3. The three-dimensional frame is smooth and free of rattles; 4. Strong passing ability, easy to drive on daily roads; 5. 25km long range (20Ah) Strong passing ability for easy driving on daily roads; 6. Black and white gradient colours and avocado green are cool and vibrant;	1. The double strength test (double roller 2 times the national standard test, drop nearly twice the national standard test); 2. The strongest load bearing 150kg in the same category in the world; The strongest load-bearing capacity (up to 150kg, the best in its category globally) 3. The world's best carbon fibre material (greater strength, better reliability)	1. Mobile phone APP, Bluetooth intelligent remote control; 2. Software can be upgraded remotely; 3. Light up the handrail lighting at the touch of a button;



Key Function

-  More comfort
-  Slope Lock Safety Mode
-  Longer battery life
-  Ergonomic Chair
-  Quick Release Backpack
-  Intelligent Remote Control
-  Dual storage space

Overall Product Description

This product is an indoor and outdoor mobility solution, designed to be lightweight and part of BangBang Robotics Group's mobility product line. It aligns with the growing trend of lightweight, intelligent, and comfort enhancing features in the electric wheelchair industry. The product caters to the new generation of active seniors who enjoy life and travel extensively, taking into consideration long-distance journeys by plane, high speed trains, automobiles, and yachts, making travel more convenient and comfortable.

Product Features



Full carbon solid three-dimensional frame

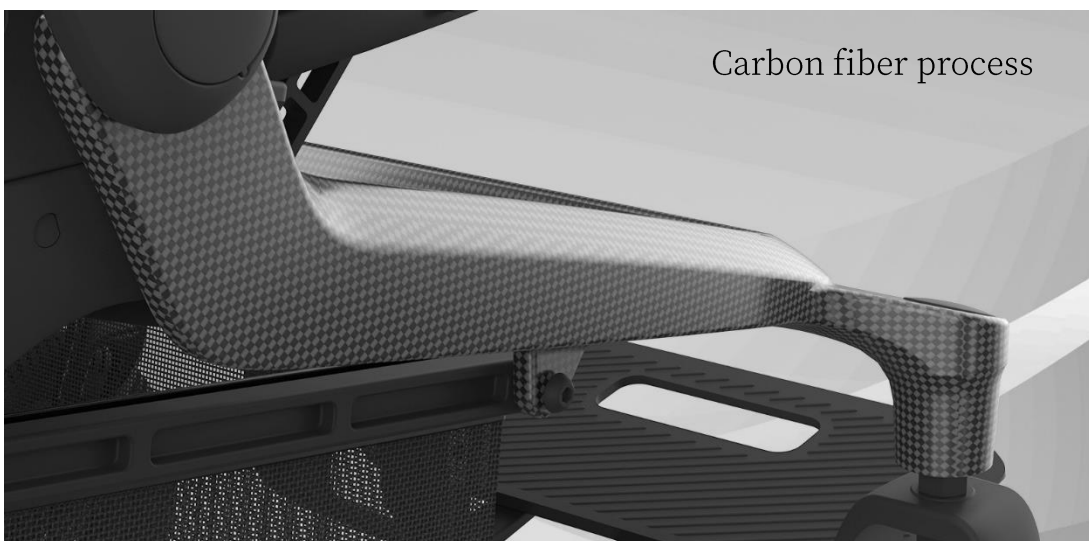


Intelligent manoeuvring (e.g. of a computer)



Removable backpack

Product features



Thoughtful design

- Double storage space
- Touch lighting
- 2-Step instant folding
- Novice mode
- Ergonomic chair
- Intelligent remote control
- Lightweight carbon fiber
- Detachable backpack
- Cool color scheme



PART02

Product Innovation Points



Carbon Fibre Lightweight | Safety Assist | Intelligent Handling



Product Innovation Points

1. Lightweight carbon fibre material

The entire bike is made of full carbon fibre and is light enough to have a net body weight of about 35 lbs/15.87kg.

1. Lightweight: carbon brazing material has a lighter weight compared with traditional materials, greatly reducing the weight of the whole vehicle, easy to carry and transport.
2. High strength: the use of carbon fibre as reinforcement can effectively improve the strength and rigidity of the whole vehicle. The load capacity of the whole vehicle can reach about 330lbs/150kg.
3. More stable: three-dimensional frame, better rigidity, more stable driving experience, invisible changes without rattles.

2. Driving safety assistance systems

Hill Lock Safety System

Intelligent start-stop electromagnetic braking system, both uphill and downhill.

Brake when you let go of the hand, stopping the slope safely without skidding.

Upgraded braking system: handling algorithms based on kinematics and dynamics models to improve braking performance and optimise the braking experience.

Intelligent speed control: Brushless driver, so that the speed of uphill and downhill is stable, no deceleration on the uphill, no acceleration on the downhill

Intelligent Speed Limit: In push mode, when driving on ramps or flat roads, over-speeding is prevented from causing abnormal conditions by limiting the speed.

Automatic hill stop: When travelling on a slope, it will not slip even if the holding brake is opened by mistake.



3.Intelligent control

01

It can connect to a mobile phone via Bluetooth, allowing the mobile app to enable remote control of the scooter and view or adjust personalized driving parameters.

02

Cruise control system: no need to push the rocker forward, long press the accelerator button to automatically keep moving forward, you can control the left and right steering through the rocker.

03

Novice mode system: the speed can be limited according to the user's psychological habits, this mode is designed for the elderly.

04

Power saving mode: standby for 30min without operation automatically shut down, enter the power saving mode.

05

Precise rocker control: S-shaped soft and smooth acceleration start, fast deceleration stop, flexible turning, loose hand can brake (braking distance indoor $\leq 1.0\text{m}$; outdoor $\leq 1.5\text{m}$).



PART03

Product Highlights



Quick release backpack | Ergonomic Chair | 2-Step Folding | Stylish Look
Soft Touch Light | Battery Light | Multiple Controls | 2 Charging Methods

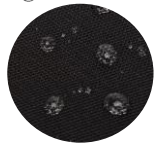


Product Highlights

1. Dual storage space & detachable rear backpack



Reflective waterproof zip
Serves as a warning at night



Exterior Oxford cloth
Water-resistant, abrasion-resistant and easy to care for



Internal EVA thermoforming
Strong sense of modelling, corrosion-resistant, shockproof cushioning, thermal insulation, moisture can be insulated hot water, meals, no residual odour



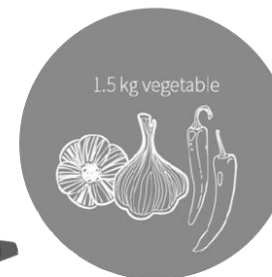
Detachable and loadable large capacity backpack

Weight capacity 5KG



Load-bearing bottom mesh pocket

Weight capacity 5KG



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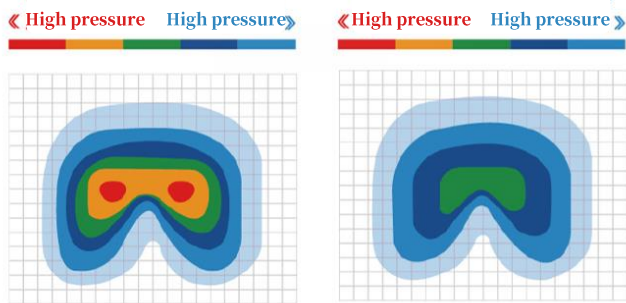
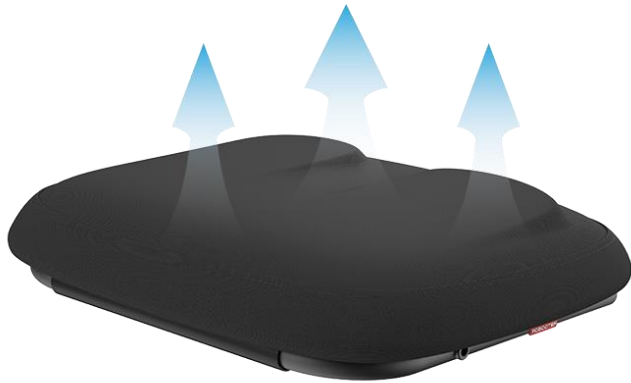


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Easily detachable backpack, transforms into a fashionable handbag/slash bag in seconds

2.Ergonomic Chair



High-rebound removable sponge cushion: comfortable, breathable, easy to clean, and offering a healthier experience.

Ergonomic backrest

- The introduction of ergonomics research on the human body posture, sitting posture and more than 30 data, carefully tuned mobility scooter parameters.
- Based on the correct sitting posture: body leaning back, knees slightly higher than the seat, creating 106 degrees of seat back and 4 degrees of recline bionic curve design.
- Eggshell wrap-around backrest.
- High rebound removable cushion.



Ergonomic chairs for mobility scooters: promoting proper posture and comfort to significantly improve sleep, heart rate, and overall health.

3. Silicone armrest cushion + height-adjustable footrests

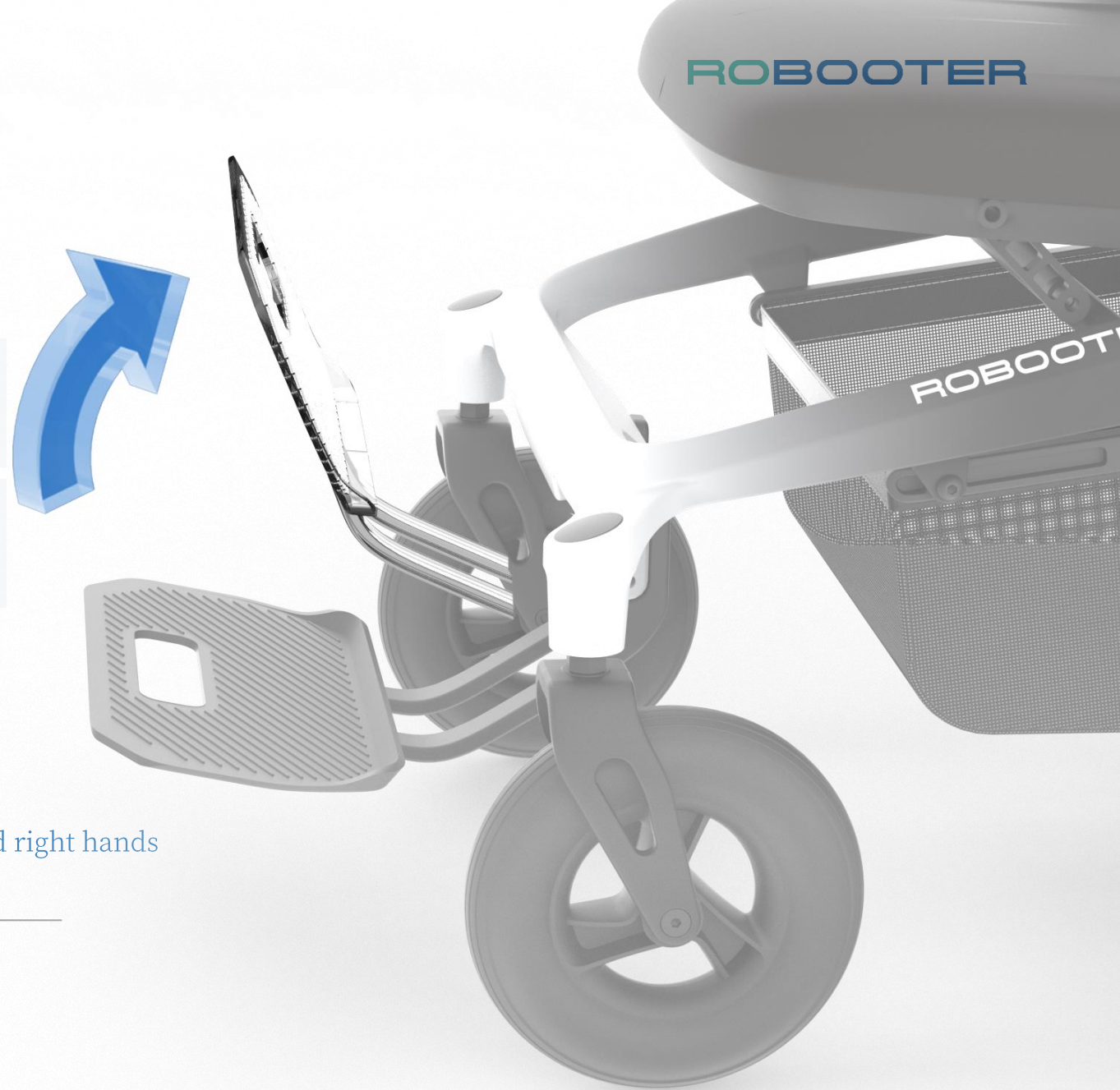
01 Black silicone soft cushion, good touch, high-end atmosphere



02 Footrest height adjustable in two positions



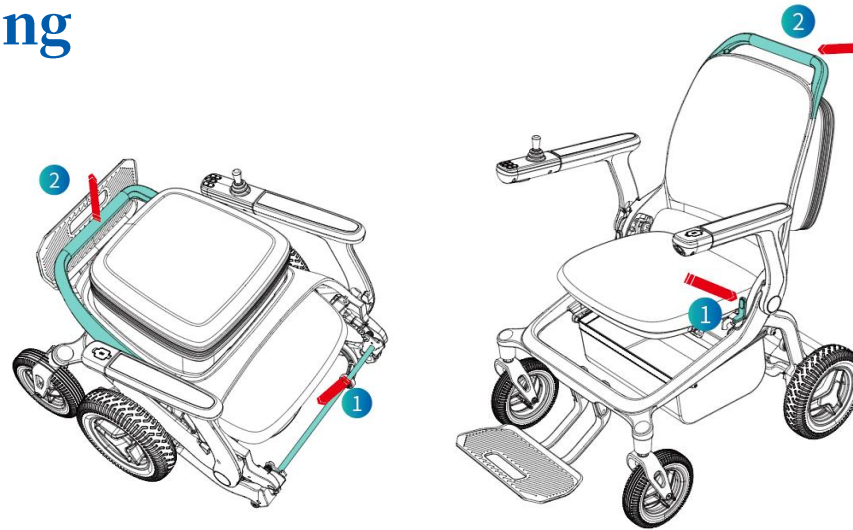
- ◆ Remote control
- ◆ You can directly swap left and right hands
- ◆ Black silicone cushion



4. Two-step folding

Collapse

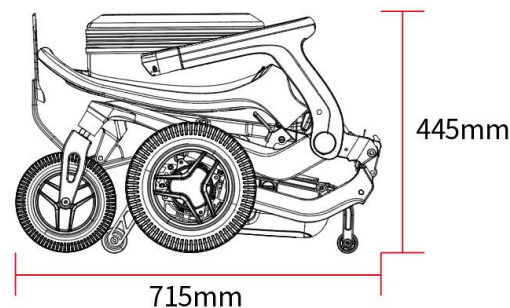
- ① Press the folding switch with one hand;
- ② The other hand pushes the backrest armrest forward and upward, and then presses downward.



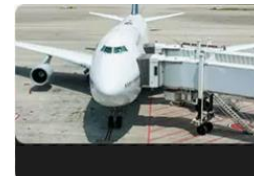
Compact size when folded
Length/Width/Height:
715*628*445mm

Commencement

- ① Press the folding switch with one hand
- ② Pull the other hand up to push the backrest armrest.



- Equivalent to approximately 28" suitcase (70cm* width 47cm* height 27cm)
- 12Ah lithium battery, UN38.8 certification can be checked on the plane



5. Fashionable appearance



- Black to white gradient colour or avocado green, avoiding the black colour of the whole body, more suitable for the aesthetic demands of the new elderly, not boring and not jumping out.
- Product integration streamline design, fashionable and dynamic, dynamic and positive, Product features a smooth, streamlined design that's dynamic, agile, and full of modern style and energy.
- The first appearance of the surface of the screwless design, simple and pure, abandon may interfere with the user's excess decorative elements, effectively avoiding the visual clutter. The first appearance surface has a screwless design, which is simple and pure and eliminates unnecessary decorative elements that may interfere with users effectively avoiding visual disorder.
- The full frame is painted and matted, the first painting process in the carbon fibre wheelchair bike category, a change from the traditional carbon fibre 3K pattern style.



Product Highlights

Touch Soft Light

Minimalist interaction.
Lighting the way home



Battery indicator

- ✓ Enables night-time alert function for users to enhance travelling safety.



Multiple Controls



Controllers



APP Intelligent Control



Remote controls

2 charging methods

- ✓ Armrest charging, no bending and no strain;
Remove the battery to charge; BMS Intelligent Battery Management System, longer battery life and more accurate power display.



PART04

Product Structure



Carbon Fibre Power Wheelchair | €80

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PART05

Product Parameters



Product parameters		
Unfolded size	998*628*965mm	39.3" *24.7" *38"
Folded Size	715*628*445mm	28.2" *24.7" *17.5"
Package Size	775*735*495mm	30.5" *28.9" *19.5"
Mass of heaviest part(without battery)	15.9±0.5Kg (No battery and backpack)	Approx. 35lbs. (No battery and backpack)
Battery weight - 20Ah	2.9KG (measured data)	6.4lbs. (measured data)
Maximum load	150kg	330lbs.
Maximum speed	Normal mode: 6km/h; Enhanced mode: 8km/h	Normal mode: 3.7mph; Enhanced mode: 5mph
Overrun height	40mm (ground clearance 82mm)	1.6" (ground clearance 3.2")
Width of the transgression channel	100mm	3.9"
Climbing angle	9°	9°
turning radius	≤85cm	≤33.5"
Seat width	420 mm	16.5"
Seat depth	430 mm	16.9"
Charging time	7h (20Ah)/4h (12Ah)	7h (20Ah)/4h (12Ah)
mileage	18km (12Ah) (Standard) / 25km (20Ah) (Optional)	11.2miles (12Ah) (Standard) / 15.5miles (20Ah) (Optional)
Colourways	black to white gradient colour	black to white gradient colour

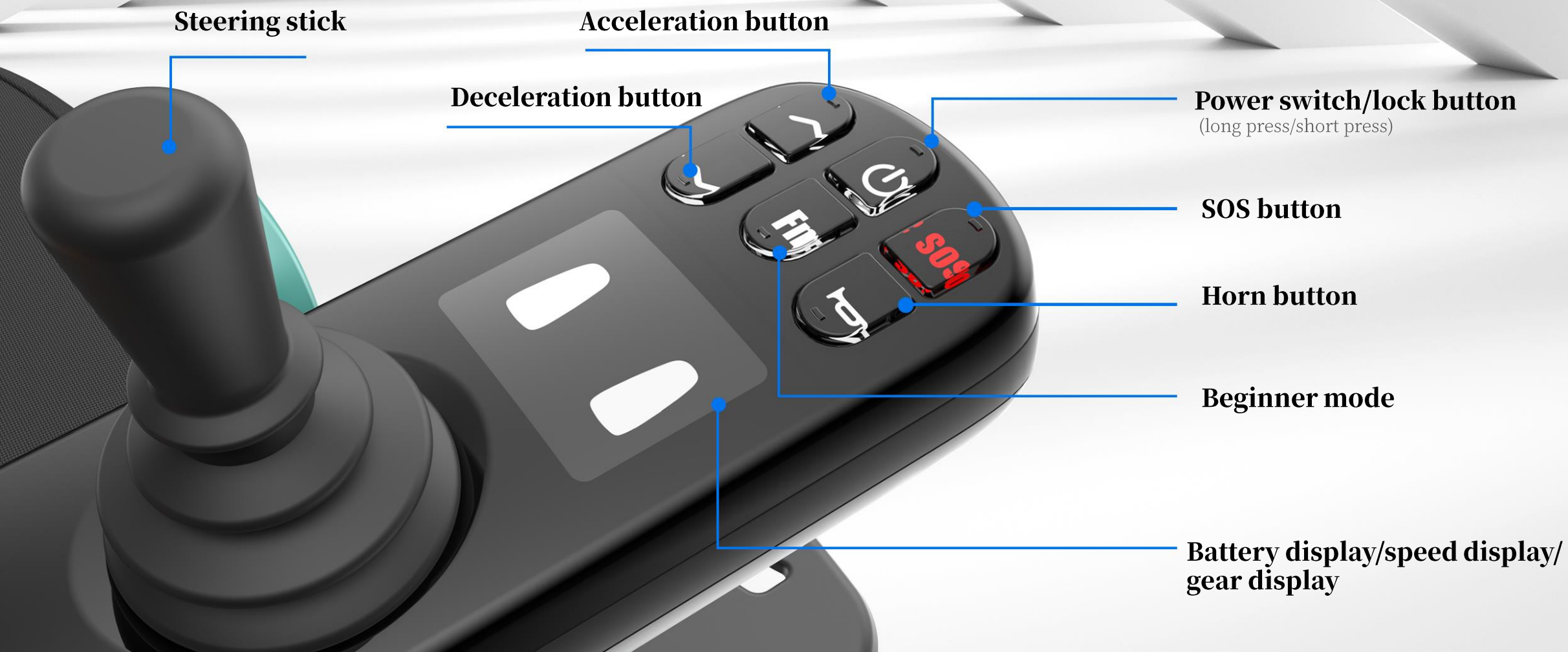
PART06

Product User Guide

Power On/Off | Fold/Unfold | Newbie Mode | Lock Function | Cruise
Control | Parameters Mode



Usage Guide



User guide

Turn on/off

- 01** Power on/off by pressing the power button for 3 seconds;
- 02** Power on/off with a prompt sound;
- 03** On the normal mode or novice mode, you can remotely shut down through the APP;
- 04** The power on/off animation matches the power on/off audio rhythm.



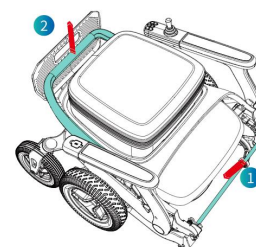
Turn on/off

Fold/Expand

- 01** The folding buttons are located on both sides of the seat;
- 02** Press the folding switch with one hand, push the backrest armrest forward and upward with the other hand, and then press it down to complete the folding;
- 03** Press the folding switch with one hand, and use the other hand to pull up and push the backrest armrest to complete unfolding.



Step 1



Step 2

Novice Mode

- 01** Click "FN" to enter the novice mode, and click "FN" again to exit the novice mode;
- 02** In the novice mode, the fastest speed is 2nd gear;
- 03** This function is specially customized for the elderly.



Novice Mode

User guide

Lock function

- 01** After powering on, the machine will enter the lock function by default;
- 02** Click the "lock button" to unlock it, and you can control the joystick to drive;
- 03** Every time you enter the lock mode, the gear position will automatically drop to 1st gear.

Cruise control

- 01** Turn on the machine and unlock it.
- 02** Enable cruise control in the app.
- 03** Press and hold the accelerator for 3+ seconds to activate cruise control, confirmed by a sound prompt.
- 04** Push the joystick forward to start cruising.
- 05** If the joystick is not operated, a prompt will sound: 'Timeout, cruise control exited.'

Freewheel Mode

- 01** Press and hold both the acceleration and deceleration buttons to activate Freewheel Mode, indicated by a 'double-hand boost' symbol on the screen and a voice prompt.
- 02** To exit, push the joystick, press any of the four buttons (horn, mode, SOS, lock), and a voice prompt will say 'Exiting Freewheel Mode.'
- 03** After exiting, the system defaults to Lock Mode, regardless of previous settings.
- 04** Additionally, with the power off, pressing the red brake button next to the rear wheel will also activate Freewheel Mode, even when the battery is low



Lock function



Cruise control



Freewheel Mode



Charge detection function	1. When the device is plugged into the charger, a voice notification will announce charging, and the LCD power lights will display a running light effect. 2. During charging, joystick and APP control of the wheelchair motor is disabled.
Battery level display function	The power display lamp on the device provides a real-time power status, divided into five grid levels. 2. Grid levels: $\geq 0 = 1$ frame, $\geq 20 = 2$ frames, $\geq 40 = 3$ frames, $\geq 60 = 4$ frames, $\geq 80 = 5$ frames. 3. The APP displays the power level as a percentage for more precise monitoring.
Battery saving mode	1. Automatically shuts down after 30 minutes of inactivity (no button, joystick, or APP operation). Equivalent to long-pressing the power switch.
Wheelchair speed display	1. LCD displays wheelchair speed in km/h. 2. Speed accuracy: $\pm 10\%$.
Bluetooth connection status	1. When Bluetooth is not connected, the LCD shows 'No Connection'. 2. "When Bluetooth is connected, the LCD shows 'Connected'."
APP remote upgrade function	1. Device software can be upgraded through APP.
APP remote control function	The APP connects to the device via Bluetooth, allowing access to the remote control interface for operating the device. Joystick control on the device has higher priority than APP remote control. percentage than the device's normal operating speed. The APP can only access the remote control interface in locked mode; it cannot control the locking state of the device. In the remote control interface (i.e., when the wheelchair is in locked mode), pressing any of the six keys on the device (joystick, speaker, mode, SOS, lock, gear +, gear -) will override APP control and automatically exit the remote control interface. APP remote control speed is capped at 50% of the device's speed in gear 1. Remote control must be locked, and the locked speed will default to gear 1.
APP configuration device driving parameters	1. The APP allows configuration of up to two highest gears. 2. The factory default is set to high gear.
APP Voice Setting	1. The APP can control voice prompts and toggle the voice alarm. 2. The APP allows volume adjustment with three levels. 3. Broadcasts a warning every 10 seconds during reversing.



CONTACT US



Email

info@robooter.com



Web

<https://www.robooter.com>

<https://www.bangbangrobotic.com>