

# **EASYLIFE OPTIMUS**

## Automatic Folding Mobility Scooter



## Introduction

Dear customer:

**Thank you for choosing the Optimus Automatic Folding Mobility Scooter.**

Please carefully read thorough this manual fully before operating the scooter.

Should you not understand the content well or need to help, please contact the dealer nearby or contact with our after service department directly.

This manual has a brief introduction to the operational approach on every part of the scooter, specification and how to deal with specific conditions.

The following mark in the manual: 「★」 in the manual stands for prohibited action and behavior.

**Please pay attention to Detailed reading on the paragraph with words  
“Warning, Attention and A device ”**

● If you transfer this scooter to another person, please do not forget to pass the manual to the next owner.

● EasyLife keep the right to have design changes, all information and pictures without further notification.

Thank you for your understanding and support.

We hope that the Optimus Folding Mobility Scooter brings you more independence and a better quality of life.

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# I . Safety Requirement

## ■ Before driving

- Please drive on the pavement. In any case that you come across a road without sidewalk, please drive to outer side.
- Please pay attention to traffic of other vehicles on the road when there is no sidewalk available.
- Please do not cross the road.
- Please avoid driving into heavy traffic zones.
- No drinking and fatigue driving.
- Avoid driving at night.
- Please obey traffic signs, local traffic laws and regulations.

## ■ Driving Ground

The Optimus has enhanced stability driving on normal surface conditions (such as dried cement, concrete or asphalt floor consist terrain) .

- It can be used in parks and grasslands safely.
- Avoid driving on unconsolidated pebble stone ,covered soil and gravel surfaces.
- If you cannot judge the condition of the road, do not drive on it.
- The Optimus can stride across obstacles with a certain height. To do so use a lower speed, slowly passing the obstacle.



**Warning: do not try to cross a slope beyond the angle listed in the manual, please follow other requirements mentioned in this manual.**

### ■ Safe Precaution

- Don't try to drive before you read and fully understand the manual.
- This scooter is designed for only one person. No additional passenger is allowed.
- Please switch off the power when the scooter is not in use.
- Please drive slowly when come cross with rugged rock or soft ground.
- Please slow down when you turn a corner.
- Please slow down when you turn a corner.
- Please don't drive on sharp slopes or drive continuously 300 meters on slope above 9 degree. The control system will automatically cut off the power when you exceed the limited angle. Under the circumstance, please shut down the power and restart again.
- When at the bottom of a slope or about to face a slope , rugged ground, no protected edge area ( the road side, door and stairs), please drive carefully.
- Any change and modification on initial setting and modification is prohibited.
- Please drive carefully when you are in a busy street, market and shopping center. Please consult with your local government or state agencies regarding the rules of electric scooters if you have any concerns.
- Using the Optimus scooter as a seat in a moving vehicle is prohibited.
- This product is equipped with lithium-ion battery, non professional persons are not allowed to disassemble the internal parts of battery.

## ■ Precautions on usage

- **Repair and modification**

If repair or modification is needed, please contact the store or agent.

- **Original parts**

Please use original parts of when replacement is needed.

- **Environment protection**

Please don't abandon the scrapped scooter and battery. If necessary, please contact your local dealer or agent.

## II . Description of each part



- |                            |                                  |                                       |                         |
|----------------------------|----------------------------------|---------------------------------------|-------------------------|
| <b>1.Control Panel</b>     | <b>2. Leather seat</b>           | <b>3. Armrest</b>                     | <b>4. Plastic cover</b> |
| <b>5.PU Solid Wheel</b>    | <b>6. Charging Socket</b>        | <b>7. Footrest and Battery Holder</b> |                         |
| <b>8.Decorative pieces</b> | <b>9. Aluminum Steering post</b> | <b>10. Fastening Device</b>           |                         |

### ● Detailed diagram



- |                      |                             |                                     |
|----------------------|-----------------------------|-------------------------------------|
| <b>1.Speed Nut</b>   | <b>2. Battery indicator</b> | <b>3. Horn Button</b>               |
| <b>4. Key Switch</b> | <b>5. USB interface</b>     | <b>6. Directional control lever</b> |



### III. Operating Instruction

- **Power Switch (Picture one)**

The power switch is located on the right side of the control panel on the handle.

Turn the power switch key clockwise for power on.



Picture One

**Warning:** If the power is turned off while the electric scooter is running, the electromagnetic braking system will be on and the scooter will stop abruptly.

- **Battery indicator(Picture Two)**

Turn on the power switch, battery indicating light will be on, green bars indicates strong power, while yellow indicates weak power and red indicates low electric requiring for immediate charging.



Picture Two

- **Speed adjuster(Picture Two)**

Speed adjuster is for adjusting the speed, the speed range is 0.2km/h~6km/h. Turn the knob to the end left for lowest speed. Turn the knob to the right for higher speed.

Speed Adjuster



Picture Three

- **Forward and Backward(Picture Three)**

Pull back the right directional control lever for going forward. Pull back the left directional lever for moving backward. The alarming beep sound will be the sound while the scooter goes backward. The electromagnetic braking system be on automatically while the directional control lever is in neutral status.

- **Horn Button**

Press the button of horn for sound to prevent any accident and injury when necessary.

- **Battery Holder**

Built-in 24V 6AH lithium-ion battery is to supply strong power for the running and folding of the scooter.

- **Controller**

Controller is set under the seat of the rear frame to receive the signal from the top control panel on handle bar for controlling motor, brake and other systems work properly.

- **Brake Joystick**

Hand Brake on and off can be done by switching the lever for manual or electric movement.

「Electric Moving」: pull back the brake lever to (off) for electric moving

「Manual Movement」: pull forward the brake lever to(on) for manual movement.



Picture Four

- **Driving Parts**

The motor/driving is an electrical part that converts electric energy into the rear wheel drive power.

**Warning:**

Pull down The brake joystick during downhill is absolutely prohibited, that will cause the scooter entering hand walking state without any brake action.

## ■ Driving Method

### ● Start Moving

1. Make sure the hand Post is pulled out and at locked position. Turn the power switch key clockwise, then the power indicator light is on.
2. Check the remaining power of the battery through battery power display, charging is required when battery is low.
3. Adjust the speed controller to the desired speed.
4. Understand forward and backward controlling function of directional control lever.
5. Make sure the surrounding environment and road conditions are safe.
6. Pull or Push the directional controlling lever with fingers for forward or backward, and adjust the speed of scooter if necessary.

#### **Caution:**

1. Please keep power off when you get on or off the scooter.
2. Do not operate directional controller lever with both hands at the same time.
3. Do not power off while driving, falling down will be caused by an emergent brake.
4. Please drive indoor at low speed.
5. Be careful when driving at places with crowd people and heavy traffic.
6. Please pay attention to crowd behind and other obstacles when reversing.

### ● Stop

1. When the directional controlling lever returns to the original 「 center position 」 , the brake will automatically release, then the scooter will stop.

**Caution:** The braking distance will vary depending on the driving conditions, want to stop, please prepare to brake in advance.

2. Turn the power switch key counterclockwise and the power indicator light will be off.

## IV. Battery and Charge Method

- **Lithium ion Battery**

This product uses by 24V 6AH high-performance lithium-ion battery, **Fully charging the battery is required before first time use.**

**Warning:**

1. Do not disassemble the battery ,it may cause accidents and injury.
2. Do not drive on icy,slippery floors or saline-alkali soils as this may cause accident and injury.

- **Charger (Picture Six)**

This product uses efficient charger-AC 100-240V/DC24/2A. As shown in picture six.

- **Charger (Picture Seven)**

The charging mode of the scooter is direct charging.

1. Turn the power off the scooter.
2. Insert the microphone plug of the charger into the socket under the seat in the scooter directly. As shown in picture seven.
3. Insert the charger's power plug into power supply.
4. When charging by using household power source condition , the red indicating light goes on. The charging time will be vary according to the battery status and temperature, generally 5-8 hours. The indicator light is orange during charging.
5. When the charge is complete, the charger automatically stops working and the indicator light changes from orange to green. Pull out the charger's input line first, and then pull the microphone plug of the charger out of the battery interface.



Picture Six



Picture Seven

**Caution:** Please observe the following regulations to avoid accidents caused by abnormal charging.

★The battery shall only be charged with the charger provided by manufacturer and make sure it is full charged. Or it may result in battery damage or inability to be charged .

★Do not disassemble or modify the charger.

★Please charge the scooter under good venting place without direct sunlight.

## **V. Adjustment of Folding and Unfolding**


### **● Folding and Unfolding**


**remote-controller**

#### **1. Folding and unfolding of scooter**

**Picture**



1. Take out the remote controller .
2. Keep pressing.  until completing the scooter is completely unfolded.

Keep pressing “  ” until the scooter is fully folded.

**Caution:**

Please make sure there is no object on or under the scooter.

Picture Nine

## ● Arm Rest Adjustment (Picture Ten)

Handrail width can be adjusted inward and outward.



Picture Ten

1. Release loose the armrest fastening knob under the seat.
2. Move inward pr outward to the desired position, and then fasten the knob.
3. The armrest width adjustment ranges from 450mm-550mm.
4. Uplift the armrest bar of armrest for the convenience of Getting on and off the scooter.

## ● Handle telescopic adjustment

Push aside the locking lever of the handle outward to the lowest position and lock the handle.

## ● Folding and unfolding action

1. Turn power off.
2. Push forward or backward with holding the handle.



The scooter can also be folded and unfolded manually by using the switch found at the back on the shroud under the seat. The scooter can also be folded and unfolded manually by using the switch found at the back on the shroud under the seat.

- With the switch in the double bar position the scooter will fold/open manually with the button on the right side of scooter.
- With the switch in the single bar position the scooter will fold/open using the remote.
- When the switch is in the “O” position the scooter will not fold or unfold.

★It is recommended the switch is left in the “O” position at all times to prevent accidental folding and unfolding.

## VI. Inspection and Maintenance

### ■ Routine Inspection

Before driving, please make sure that the following items have being inspected, if an unusual situation happens, please have an inspection carried out by yourself or inspected by your dealer or agent.

Inspection item	Inspection content
Handle	Is there any loose components? Is it possible to turn right and turn left ? Can it be extended in and out ?
Speed adjuster	Does it rotate normally? Is the speed adjustment under normal condition?
The forward and backward of directional control	Can it be operated forward and backward movement well and stop at neutral position?
Brake lever	Can it be switched for manual and electric control function ?
Battery indicator	Are the light bars for battery indication works well ? Is the battery full charged?

### **Caution:**

when you consider there is some mechanical problem, please go to the dealer or agent for the inspection and maintenance.



## ● Battery Maintenance

**This product uses high performance lithium-ion battery, please charge the battery fully each time after using the scooter. Please don't over discharge the battery.**

### **Caution:**

The charging of battery in every one month is required without while the scooter is not used for some time. It is recommended to charge and discharge battery every three months.

1. Check all insulation on wires regularly and fastening status of the attachment connectors .
2. Keep all electronic components away from moisture, otherwise it must be completely dried before use again.
3. Please use the soft cloth to clean the dirt on the scooter body, do not clean the scooter body with water directly.

## **VII. Common Trouble Removal**

The controller contains the procedure of trouble shooting and trouble free. Any error and problem is detected by the diagnostic program, the LED on the control panel will light up. LED light for indicating failure will be on until the failure is sorted out. For example: the flashing “1-9”time with different situation, the following showing the situation of flashing times. If the problem persists ,please consult that with us or our agent.



Fault Display LED

Flash 's number of times	Trouble description	Possible cause
1	Low battery voltage or battery connection problem	Check the battery connection, if there is no problem with the connection, try charging the battery
2	Problems with motor connection	Check all connections between motor and controller
7	Forward and backward controlling lever failure	Before turning on the power of the scooter, make sure the controlling lever is in the neutral position
9	Brake Lever failure	Check the connection of the brake lever and the motor to ensure that the controller is connected securely

## VIII. Technical Parameters

Item	Parameters
Dimensions(L*W*H)	1050x550x870mm
Packing Dimensions(L*W*H)	480x550x790mm
Weight (With Batteries)	29KG
Front wheel	2*7"PU wheel
Back wheel	2*8"PU wheel
Speed	0-6km( Adjustable)
Endurance	20km
Spanning ability	40mm
Driving and braking mode	Back-wheel drive, electromagnetic brake
Load capacity	120kg
Height from the ground	50mm
Seat off-ground height	560mm
Minimum radius of gyration	1200mm
Maximum gradeability	$6^{\circ} \pm 1^{\circ}$
Controller	PG45A
Motor	180W
Charger	DC24V/2A AC100-240V
Battery	24V 6AH lithium battery (two batteries)



