

**Quick Start Guide** 

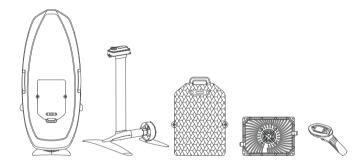
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Waydoo Technical Support

This guide may be updated without notice. Check the official Waydoo website for the latest version.

www.waydootech.com





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# Disclaimer

Please read this manual and related warnings carefully before use. This product concerns water sports equipment. Using this product has inherent risks that may cause serious injury or even death. Users who use this product must understand and accept the inherent risks of using this product. Misuse of this product may cause product damage or personal injury. As a continuous effort of product development. Waydoo reserves the right to change the components, specifications or other aspects of this product without prior notice. For more information, please visit: www.waydootech.com.

**⚠ WARNING** 

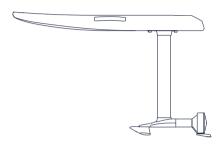
Minors under the age of 18 are not suggested to use this product. A safety summary as part of the operating safety knowledge is included. Please read the entire content of the disclaimer and safety operating instructions carefully. After reading the entire user manual, familiarize yourself with the functions of the product before proceeding. This product can cause serious injury to oneself or others, or cause product damage and property loss. This product can only be used safely with instructions clearly in mind, and it requires some basic common sense before operation. Do not use parts that are not provided or recommended by Waydoo, and strictly follow Waydoo's instructions to install and use the product. This guide contains instructions on safety, operation, and maintenance. Make sure to carefully read all instructions and warnings in the quick start guide before assembly, setup, and use.

# **Waydoo Flyer ONE**

### Introduction

ΕN

Founded in 2018, Shenzhen Waydoo Intelligence Technology Co., Ltd. is a company that invests and manufactures intelligence hardware for water sports enthusi-



The Waydoo Flyer ONE has been ingeniously built to allow more people to experience the thrill of water sports. The overall weight of the product is 16 kg without battery and 28 kg with battery, with an overall size of 1680×700×1050 mm.

## Feature Highlights











Power 6000W

Operating Time 55 - 85 min

**Charging Time** 2 h

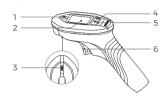
Maximum Speed 42 km/h

# **Parts**

#### Jet ONE Controller

The Jet ONE Controller should be paired with the PowerFlight Cell for Bluetooth connection. The Jet ONE Controller is ergonimcally designed and adopts an OLED display interface. The display shows the speed and the power level of the Power-Flight Cell and the Jet ONE Controller.

The Jet ONE Controller displays power, Bluetooth connection and flight speed. It offers 24 speed gears.



1. Power Button

2. Display

- 4. "+" Speed Gear 5. "-" Speed Gear
- 3. Magnetic Charging Port
- 6. Trigger

## Charge the Jet ONE Controller



- 1. This product uses magnetic charging to reduce friction between terminals.
- 2. When the charging cable connector is closed to the charging port of the Jet ONE Controller, the charging connector automatically connects to charge. The charging time is 3 hours.

### Jet ONE Controller Display



- 1. Jet ONE Controller Power Level
- 2. Speed 3. Waydoo Flyer ONE Power Level
- 4. Bluetooth 5. Speed Gear

### Remarks:

- 1 When the Jet ONE Controller is not connected, the Bluetooth icon on the display continues to flash until it is connected.
- 2. The Jet ONE Controller offers 24 speed gear options. In speed limit mode, speed options can be limited to 10 gears and the highest gear can be adjusted.
- 3. The number on the left of the speed level shows the current gear.





### Remarks:

- 1. When the battery level of the Jet ONE Controller is lower than 20%, a low battery warning prompt appears. Make sure to charge in time.
- 2. When the Jet ONE Controller is in standby for more than 8 seconds, it will switch to the screen with the lock icon. Press and hold "-" for 1 second to unlock.



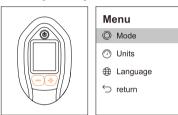


Normal Mode

ΕN

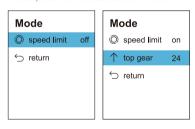
Speed Limit Mode

## Switching Working Mode:



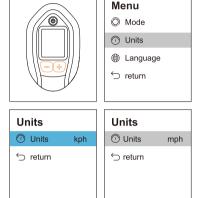
Short press "+" and "-" simultaneously when the Jet ONE Controller is powered on to enter Settings.

Scroll through the menu by pressing the "+" or "-" and press the Power Button to confirm.

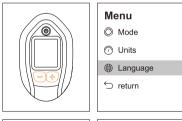


After entering the sub-menu, use "+" or "-" to scroll and press the Power Button to select the Mode. Press "+" or "-" to switch and press the Power Button to confirm. The highest gear can be adjusted in speed limit mode.

Finally press "+" or "-" to scroll to the return option, and press the Power Button to confirm until you exit the Settings. Refer to the Units and change operation as follows:



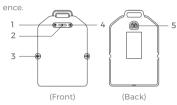
For languages, refer to the Language and change operation work as the following mode operation.



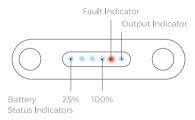


### PowerFlight Cell

The PowerFlight Cell can be embedded in the board and has an average battery life of 55-85 minutes. The battery has a capacity of 32500mAh and the voltage is 14S/58.8V. Additionally, the built-in AL system tracks the battery status, allowing for a safer user experi-

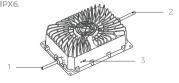


- 1 Bluetooth Button
- 2. Battery Status Display
- 4 Power Button 5. Integrated Port
- 3. Rotary Lock



## Fast Charger

Adopting an aluminium alloy diecasting, the Fast Charger has an input voltage of 90-260 V, output voltage of 58.6-59 V, charging current of 16-18 A, and a protection level of IPX6.



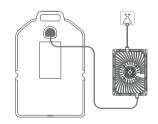
1. Integrated Line 2. Power Cord 3. Indicator Light

## Charging Status Description



LED	Status
Steady blue light	Standby
Flashing blue light	Connecting
Flashing green light	Charging
Full green light	Fully charged

Note: Fully charge the PowerFlight Cell when using for the first time. Make sure to use the standard charger.



### Charge the PowerFlight Cell

- 1. Connect the charger's integrated line to the battery integrated port.
- 2. The charger power indicator shows a steady blue light indicating standby mode; then short press the linking switch on the smart battery, and the indicator will change from a steady blue light to a flashing blue light. waiting for communication; then the flashing blue light turns to flashing green, indicating that it enters the charging mode.



3. When the indictor light on the Fast Charger changes from flashing green to full green it means that the PowerFlight Cell is fully charged. The PowerFlight Cell usually takes 2 hours to charge. When the red light flashes on the Fast Charger, it means the device is malfunctioning. Stop charging immediately if this occurs.

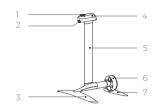
### **EPP Board**

The EPP Board acts as the main body and core of the efoil, with a large area of soft cushion that makes for a better user experience. High quality composite materials and aluminum alloy are used to reinforce the board. while the streamlined design optimizes the overall performance of the product.



## Power Assembly & Wing Set

The Power Assembly & Wing Set has a built-in control system, and uses the EPP Board to complete the system connection. The ESC and motor are located underwater and boost effective heat dissipation. With an overall structure that is easy to assemble and disassemble, the Power Assembly & Wing Set is quick to start using.



- 1. Integrated Port 2. Bolt Fixing Hole
- 3. Main Wing 4. Mast Head 5. Support Rod
- 6. Propeller Guard 7. Tail Wing

### Travel Pack and Toolkit



Travel Pack (Board) x 1 Travel Pack (Gears) x 1



EPP Board x 1



Power Assembly & Wing Set x 1



PowerFlight Cell x 1



Jet ONE Controller x 1



Controller Charging Cable x 1



Fast Charger x 1



M6\*24 Board Fixing Bolt x 2



M6\*15 Board Fixing Bolt x 2



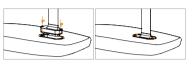
Mast Fixing Bolt x 2



4mm Hexagon Wrench x 1

## Assembly Steps

### 1. Assembling the Mast

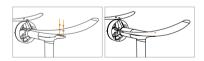


- 1. Turn the EPP Board over to insert the Mast & Power Assembly vertically into the board installation port.
- 2. After inserting the mast head into the hub to make sure it fits, fix with L-shaped bolts and tighten.

### 2. Assembling the Wings



1. Attach the Tail Wing on the tail-end mounting hub and tighten the two M6\*15 bolts clockwise with the 4mm Hexagon Wrench.



- 2. Put the Main Wing on the front-end mounting hub and tighten the two M6\*24 bolts clockwise with the 4mm Hexagon Wrench.
- 3. Flip over the EPP Board and proceed to the next step.

#### 3. Installing the PowerFlight Cell



- 1. Face the battery compartment upward and reset both Rotary Locks.
- 2. Insert the PowerFlight Cell into the battery compartment. Turn both Rotary Locks 180-degree to securely lock the battery in place.

## 4. Connecting the Jet ONE Controller



- 1. Press the Power Button on the Jet ONE Controller for 5 seconds. Power on the Jet ONE Controller.
- 2. Short press once and long press and hold the Power Button on the PowerFlight Cell. Power on the PowerFlight Cell.



3. To prepare to pair, short press once and long press the Bluetooth button on the PowerFlight Cell for 2 seconds. After the Power-Flight Cell is powered on, finish Bluetooth pairing in one minute, otherwise the Power-Flight Cell should be rebooted.



4. For Bluetooth pairing, simultaneously press and hold the Power Button of the Jet ONE Controller and speed gear "-" button. When the Bluetooth icon disappears, it means the pairing is successful. If the devices have been paired before, they will connect auomatically and Step 3&4 can be skipped.

# **Safety Guidelines**

### 1. Safety Summary

- 1. Refer to the user manual and watch the official instructional video to learn how to use this product.
- 2. This product can only be used on water. Take safety measures when using this product and wear a life jacket and safety helmet.
- 3. The use of this product requires a water depth of at least 1.2 meters. Be aware of gravel, plants, or wild animals in the water.
- 4. When using the product, pay attention to the surrounding environment, stay away from the shore, and keep a safe distance from ships and other people.
- 5. Do not use this product in waters where there are swimmers or divers.
- 6. Do not use this product in waters with floating objects, obstacles, or many wild animals and plants.
- 7. Do not use damaged or malfunctioning products.
- 8. Do not place the product directly on the roof of the car for transportation. Otherwise, the product may slide off and cause serious damage.
- 9. Do not use this product before fully understanding the operation steps and inherent risks of the product.
- 10. Do not allow others to use this product unless they fully understand how to use the product correctly.
- 11. Do not remove the propeller guard.
- 12. Do not attempt to fix or touch the propeller in the water.
- 13. Do not remove the battery when the product is in the water.
- 14. When the system is powered on, keep the propeller away from your body, fingers, and toes. The rotating propeller may cause serious, or even life-threatening, injury. Treat with caution.
- 15. When used in the water, any contact with the powertrain, front wing or tail wing may cause serious, or even life-threatening, injury. Treat with caution.
- 16. Do not use this product in bad weather. Pay attention to changes in weather when using this product.
- 17. Always use this product steadily and safely. Do not perform dangerous operations such as overspeeding or sharp turns.

### 2. Know Before Use

Before using this product, check the product to ensure that the waterproof components (such as the Jet ONE Controller, the PowerFlight Cell, and the mast head) are not damaged, the power system and control system work normally, the battery power is sufficient, and the bolts of each component have been tightened. Do not use damaged products.

1. Check whether the connection position of the Power Assembly & Wing Set is firm and the bolts are tightened in place.

- 2. Make sure that the propeller and protective cover are not damaged or cracked, and carefully remove any sand or debris residue.
- 3. Install the PowerFlight Cell in the designated location.
- 4. Make sure the PowerFlight Cell is installed firmly and the lock is tightened in place.
- 5. Make sure the product is free of damage and is working properly before use.

### 3. Special Warning

To avoid possible injury and loss, the following must be observed.

- 1. Use original accessories or accessories certified by Waydoo. The use of non-original accessories may cause danger to the safe use of the hydrofoil.
- 2. Make sure no foreign matter (such as water, oil, sand, or soil) has entered any of the components

#### Motor

## ATTENTION

1. Before use, make sure that the propeller and protective cover are not damaged or cracked, and carefully remove any sand or debris.

## **△** WARNING

- 1. Do not remove the propeller guard.
- 2. Do not attempt to fix or touch the propeller in the water.
- 3. When the system is powered on, keep the propeller away from your body, fingers, and toes.
- 4. The rotating propeller may cause serious, or even life-threatening, injury. Treat with caution.

## Support Rod

### ATTENTION

- 1. The use of the product requires a water depth of at least 1.2 meters. Be careful of gravel, plants, or wild animals in the water.
- 2. When using the product, pay attention to the surrounding environment, stay away from the shore, and keep a safe distance from ships and others.

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1. When used in water, any contact with the wings and the Support Rod may cause serious, or even life-threatening, injury. Treat with caution.

### PowerFlight Cell

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## **A WARNING**

- 1. Do not disassemble or modify the PowerFlight Cell for other purposes. Otherwise, the warrantv will be invalid.
- 2. Do not disassemble, puncture, impact, or drop the PowerFlight Cell.
- 3. Do not operate the PowerFlight Cell with wet hands.
- 4. Do not install or remove the PowerFlight Cell in water.
- 5. Do not discard the PowerFlight Cell randomly.
- 6. Do not expose the PowerFlight Cell to direct sunlight, fire, or place it in an environment where the temperature exceeds 60° C (140° F).
- 7. Use the standard charger for charging.
- 8. Place the PowerFlight Cell in a safe place and avoid contact with young children or animals.
- 9. Check whether the PowerFlight Cell is normal before use. Using abnormal batteries may cause damage, electric shock, fire, and even life-threatening situations.
- 10. If you need to store the PowerFlight Cell for more than one month, maintain the battery level at 40-60%.
- 11. The transportation of the PowerFlight Cell needs to comply with relevant local laws and requ-

## 4. Restrictions and Local Regulations

It is prohibited to use this product in waters where there are swimmers or divers. It is forbidden to operate in restricted traffic areas. Make sure to strictly abide by local laws and regulations.



















Stay away from people, boats, floating objects, a large number of animals and plants, obstacles, and other waters when operating.













Refrain from flying in weather such as rain, thunder, snow, heavy fog, strong wind, and storms,

### 5 After Use

- 1. After use, press and hold the Power Button of the Jet ONE Controller for 5 seconds, and power off the Jet ONE Controller
- 2. Take the board out of the water. Short press the Power Button of the PowerFlight Cell and then long press for 2 seconds. The PowerFlight Cell will beep to confirm it is powered off. Unscrew the Rotary Locks and remove the PowerFlight Cell.
- 3. Unscrew the Main Wing and Tail Wing Fixing Bolts and remove the wings.
- 4. Unscrew the L-shaped Fixing Bolts to uninstall the Power Assembly.
- 5. Rinse off the sand and dirt from the Board and other parts with fresh water.

# **Troubleshooting**

If there are any problems during use, stop operating the product, lay on the board, and paddle with your hands until you return to land. After the problem is solved, you can use the board again. If there is any problem that cannot be solved, contact the after-sales service in time.

### Possible Failures and Solutions

- 1. The battery fault light turns red: Check if the temperature of the battery is too high. If the temperature is too high, stop using it and wait for the battery to cool down before continuing to use. Check whether the battery level is too low. If the battery is too low, charge immediately, If the problem is still not solved, contact after-sales service in time.
- 2. The battery has no output: Check whether the power assembly and the battery are properly connected. If there is any looseness, tighten the L-shaped bolts in time. Normally, the battery has output. The output indicator on the display will continue to light up in blue.
- 3. The battery cannot be charged normally: First, check whether the fault indicator of the battery is on. If it is, contact the after-sales service to repair or replace the battery, Next, check whether the charger indicator is flashing red. If the charger is in good condition, check whether the AC plug of the charger and the integrated battery port are properly connected. Tighten if they are loose. If the connection is normal, turn the charger over. Make sure the rocker switch of the electrical appliance is in the ON position and then the battery should be able to charge normally.
- 4. The motor keeps making abnormal noises during use: Immediately release the trigger of the remote control to stop the motor, turn off the remote control, lay on the board, and paddle back to land using your hands. Take out the battery and check whether there is any foreign matter in the propeller. If there is foreign matter, remove the propeller protective cover and the propeller for cleaning. Before inspecting the propeller, make sure that the battery is disconnected and remove the battery.

5. The motor stops rotating during use:

Immediately release the trigger of the remote control to stop the motor, turn off the remote control, and lay on the board and paddle back to land using your hands. Check whether the status indicator of the remote control shows normal connection status. Next. check whether the battery level is normal, and then check whether the powertrain and the board are loose. If it is loose, tighten it in time. If the problem is not solved after attempting the above steps, remove the battery and check whether sea water has seeped into the metal joints or if there is any corrosion. If the above situation has occured, rinse the plug with fresh water and dry it with a rust remover to remove the rust on the metal joints. Finally, wash and dry the plug.

- 6. The machine shakes, vibrates, and it is difficult to maintain balance during use: Immediately release the trigger of the remote control to stop the motor, turn off the remote control, lay on the board, and paddle back to land using your hands. Remove the battery and check whether the mounting bolts of the power assembly are loose. If loose, tighten them in time.
- 7. The remote control connection appears intermittent during use: Immediately release the trigger of the remote control to stop the motor, turn off the remote control, lay on the board. and paddle back to land using your hands. Turn on the remote control and check whether the Bluetooth icon is flashing. If it is flashing, restart the battery and pair again using Bluetooth. If the problem is still not resolved, contact after-sales service in time.
- 8. The remote controller has a fault: "Err.1" = Angle sensor initialization failed. "Err. 2" Spiflash initialization failed. "Err, 3" = Angle sensor and spiflash initialization failed. "Err, 4" = GPS failed. "Err. 7" = Angle sensor initialization, spiflash initialization, and GPS failed.

# Maintenance

Regularly check the waterproof components (such as the Jet ONE Controller, the PowerFlight Cell, and the mast head) for damage and the status of each module of the power system and control system.

- 1. After using the product, turn off the Jet ONE Controller and PowerFlight Cell.
- 2. To clean the Power Assembly & Wing Set, align the water inlet of the motor mount with a fresh water pipe, and clean the motor mount for approx, 30 seconds to ensure that the motor mount is clean and free of debris. Next, clean the motor shroud, propeller, and propeller guard. Afterwards, clean the mast plug. Make sure to remove any salt, sand, or other debris that is found. Finally, clean the mast.
- 3. Clean the board, battery mounting position, and the mast mounting base and other parts with fresh water to ensure that there is no salt, sand, or other debris remaining. Wipe with a dry towel and let sit in a dry environment to remove the remaining water.
- 4. Clean the battery, battery integrated ports, and buttons with fresh water. Use a dry towel and let stand in a dry environment to remove the remaining water.
- 5. Clean the remote control. Pay special attention to the location of the remote control trigger. If you find that there is a jam when pulling the trigger, check whether there is any gravel in the trigger. If so, rinse the gravel out with clean water.

- 6. After cleaning, wait for the moisture of all parts to dry before putting the parts back into the
- 7. When storing this product, avoid direct sunlight. Ultraviolet rays and high temperatures will cause permanent damage to the product.
- 8. To ensure safety, make sure to turn off the remote control and battery when transporting this product.

### Waydoo Flyer ONE - Warranty Period

EPP Board	1 year
Mast & Power Assembly	1 year
Main Wing and Tail Wing	1 year
PowerFlight Cell	1 year (or less than 300 cycles)
Jet ONE Controller	1 year
Fast Charger	1 year

### After-sales Service Plan

- 1. When contacting Waydoo, explain in detail the problem with the product.
- 2. Waydoo's technical support staff will try to diagnose and solve your problem by phone, email, or remote assistance.
- 3. If you still cannot solve your problem, send the product to Waydoo for further testing. Waydoo will arrange services for you according to the corresponding warranty service type of the product.

## Non-after-sales Coverage

1). Damage caused by transportation or loading and unloading during the return, exchange, and repair. 2). Any unauthorized modification, disassembly, opening, and repair without official authorization. 3). Battery damage caused by any accidental factors or human factors, such as obvious hard object damage, cracks, severe deformation, broken power cord, disconnection, etc. 4). Product failure or damage caused by installation, use, maintenance, and storage not in accordance with the requirements of the instruction manual, 5). Damage due to circuit modification, battery pack modification, or using unmatched chargers guided by unofficial instructions, 6), Damage caused by using outside the safe load range of the product. 7). Damage caused by forced use of the product when the parts are damaged, 8). Damage caused by using batteries with quality problems, 9). The product or component has the identification label changed or removed. 10). Failure or damage caused by force majeure (such as fire, earthquake, flood, etc.). 11). Products or parts that have exceeded the warranty period.