

Remote Control Lifebuoy User Manual

Please read the booklet carefully before use and keep it well

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Product features

Autonomous correction course

Automatic return after losing contact

Extremely strong wind and wave resistance capability

Positive and negative double-sided driving

GPS positioning automatically returns

Full waterproof remote control, adapt to complex environments

Conforms to optimized fluid body design

Key parameters can be displayed by remote control screen

Power systems are designed through FLUENT fluid mechanics analysis

Packing List Packing List

Remote Control Lifebuoy	1	PC
Remote Control Lifebuoy Charger	1	PC
Remote Controller	1	PC
Remote Controller Charger	1	PC
User Manual	1	PC
Conformity Certificate	1	PC

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Note

Dear Users. Welcome to use our Remote Control Lifebuoy. The device incorporates smart control, remote control and other technologies. Outstanding features with high rescue efficiency and low rescue risk. Can be suited for a variety of harsh environments of rescue. It will not inform if the technical specifications in the user manual are changed. All pictures in the manual are for reference only, products please be in kind. In order to use this product safely and efficiently, please read the following information carefully.

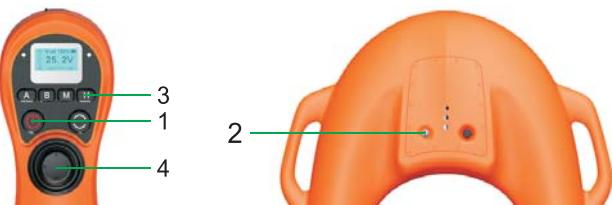
1. Make sure the battery is fully charged before use, otherwise it will affect the working time.
2. Do not put your fingers or debris into the propeller area, to avoid injury or damage to components of propeller.
3. Please charge the lifebuoy after using.
4. When the lifebuoy is remote-controlled to the drowning victim, it is better perform a deceleration operation to prevent the lifebuoy injured the drowning victim.
5. The lifebuoy is an auxiliary rescue device, which cannot guarantee 100% success of the rescue. Rescuers must be assisted in the rescue.
6. Prohibit the lifebuoy to run idle for a long time in a waterless environment.
7. Injury or property damage caused by improper use and other human factors, we don't take any responsibility.
8. Non-professional lifebuoy maintenance personnel, please do not disassemble the lifebuoy by yourself, to avoid reducing waterproof performance or even damaging.
10. Read the user manual carefully before use and strictly abide by the operating procedures.

Operation guide

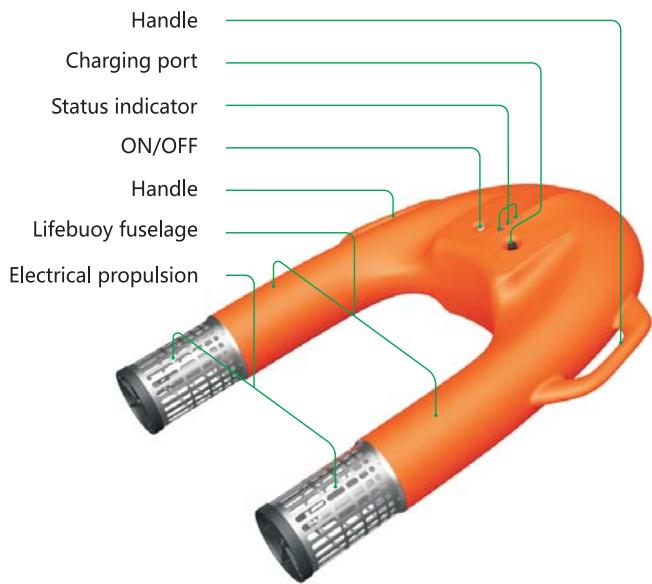
1. Press and hold the remote control power button for 2 seconds to turn on the remote controller.
2. Press the lifebuoy power button and wait for the motor self-test sound to end (about 3 seconds)
3. Short press the remote control "H" button, the display shows "M" in the upper left corner of the display to unlock
4. Push the rocker forward slightly (about 20% of the rocker) to check if the motor is rotating. If the bilateral motor rotates without any problem, the lifebuoy can be thrown into the water.

Note: After unlocking, when the lifebuoy is not thrown into the water, the rocker cannot be pushed a lot, which will cause the motor to idling at high speed, so that the sealed waterproof structure of the motor is not lubricated by water, resulting in a greatly reduced life of the waterproof structure.

Detailed description

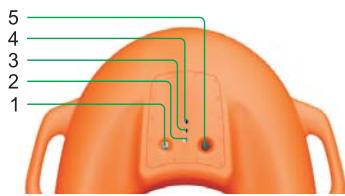


Lifebuoy Parts Introduction



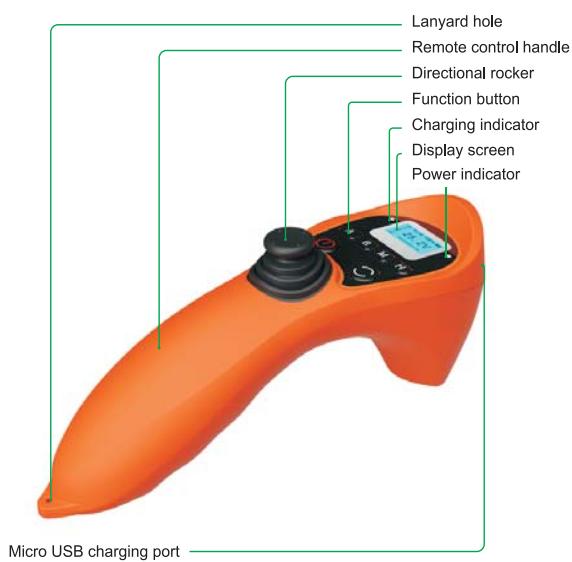
Lifebuoy Parts Introduction

1. Power button: Press power button, LED lights 2nd and 3rd flash. Lifebuoy is turned on. Press power button again, LED lights 2nd and 3rd are off.
2. Blue LED light: blue light is flash after power on, flatten the lifebuoy horizontally, the panel cover facing the sky, wait at least 15 seconds, when the blue light is on, it means GPS search and loading is completed, and the one-click return function can be used.
3. Red LED charging light: always lights up when charging, extinguished when full.
4. Green LED light: flashing green light after power on, it means that the lifebuoy is locked. Short press the "H" button of the remote control to unlock, the green LED is turn to red.
5. Charging port: unscrew the cover and insert the charger plug to charge. After full charging, be sure to tighten the cover to avoid oxidative damage and water leakage.



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Remote Controller Parts Introduction



Remote Controller Panel Introduction

1. Charging indicator: The indicator lights on when charging, and the indicator light off when full.
2. Driving mode: When the lifebuoy automatic return, the "H" letter is flashing here. When the lifebuoy is in manual control, the "M" letter is displayed here. When the lifebuoy is locked, the letter "L" is displayed here.
3. Percentage of remote signal strength between remote control and lifebuoy.
4. Remote control battery: Flash when low battery.
5. Power indicator: Light up when turn on.
6. Lifebuoy return voltage: When the lifebuoy is fully charged, the voltage value is 25.2V. When the voltage is displayed as 21V, the lifebuoy is at a low voltage. The user should charge in time, otherwise the lifebuoy battery will be damaged.
7. Menu Button: Press and hold on for 5 seconds to enter the menu. (Generally rarely need to enter the menu)
8. One-click return button and unlock button: The default lifebuoy is locked. Short press "H" to unlock, you can manually control the lifebuoy. Press and hold the "H" button for 2 seconds to trigger a one-click return, the lifebuoy is in the one-click return state.



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Remote Controller Panel Introduction

- 9.Front and back conversion button : Power on defaults front control, when the lifebuoy is thrown into the water or overturned by a big wave, press the switch button to achieve normal control operation .
- 10.Direction rocker:Control the lifebuoy forward and left and right steering.
- 11.Direction rocker button:The rocker can be pressed down, this button will only take effect after entering the menu, used to confirm selection.
- 12.Power button:Press and hold power button for two seconds to turn on or off.
- 13.Rocker status bar:When the rocker is moving forward or left and right, the status bar will be displayed as a percentage for easy operation and observation.



Driving mode introduction

1.Lock "L": The default state of the remote control and lifebuoy is locked, and only "L" is displayed in the upper left corner of the screen, the lifebuoy is not controllable in the current state.

2.Manual control "M": Short press the remote control "H" button. Only "M" is displayed in the upper left corner of the screen. In the current state, the lifebuoy can be manual controlled to move forward left and right.

3.One-click return button "H"

Press and hold the "H" button for 2 seconds, and the upper left corner of the display will flash "H" only. In the current state, the lifebuoy is automatically returned. The return point is the position where the lifebuoy is turned on (the positioning accuracy radius is 2 meters). Short press "H" to end the automatic return and enter into manual control.

Note: The user cannot manually control the lifebuoy through the remote control due to the automatic return state, need to short press the "H" button to end the return. When the lifebuoy will collide with obstacles during the automatic return, please press the "H" button in advance to end the automatic return. The user uses manual control to operate the lifebuoy to avoid impact damage.

4.Out-of-control automatic return: When the lifebuoy or remote control is disturbed by the signal, forcing the remote control to lose control of the lifebuoy, the lifebuoy will trigger

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One-click return operation

- 1.Lifebuoy LED blue light flashes after the remote control and lifebuoy are turned on. Flatten the lifebuoy horizontally, the panel cover facing the sky. Make sure there is no obstruction above (Because the GPS is under the panel cover), so GPS can search for satellites and load.
- 2.Waiting about 15 seconds, the lifebuoy blue light is on, it means GPS search and loading is complete. You can turn on automatic return when you need one-click return. The location of the return flight is the location where the satellite is searched when the lifebuoy is turned on. It should be noted that the return flight process is a straight return flight.

Out-of-control automatic return instructions

Also require operations above 1 and 2.

Usually the following conditions will trigger automatic return:

- A. The remote control signal is subject to external interference resulting in a signal of 0%
- B. Exceeding the remote control range, the signal is weakened to 0%
- C. Remote control power off
- D. There is a large obstruction between the remote control and the lifebuoy.
- E. Unknown causes the remote control to lose signal etc.

Specifications and parameters

Lifebuoy specifications and parameters

Size	1000MM X 790MM X 220MM
Weight	12KG
Working time	30Min~60Min
Navigation mode	Smart remote control / manual
Communication method	Wireless point-to-point
Housing material	HDPE
Manned weight	200KG
Return accuracy	2M
Charging time	6~8H
Remote control distance	500M~1000M
Storage temperature	-10°C~60°C
Manned speed	2M/S
Unmanned speed	6M/S
Working temperature	0°C~50°C

Specifications and parameters

Remote controller specifications and parameters

Weight	145g
Operation method	One-handed operation
Waterproof level	IP66
Charging time	2H
Size	180MM x 60MM x 80MM
Working temperature	0°C~50°C

2. Push the rocker after the remote control and the lifebuoy are turned on and unlocked , and the motor is non-responsive

Cause and solution:Because the power system needs to perform self-test after power on, it will emit a "drop-drop-drop" sound, self-test takes about 3 seconds. Unlock control after self-test is completed, if you still can't operate , please restart the lifebuoy.

3. Turn left and right is opposite

Cause and solution:If during the voyage, assume that the remote control is turned left, and the lifebuoy turns to the right, it may be that the lifebuoy was overturned by the waves and the operator didn't find it in time, at this point, you can resume normal operation by pressing the conversion button of the remote control.

4. Lifebuoy power button can not be pressed or rebounded:

Cause and solution:If the lifebuoy is driving in the dirty water, it may affect the normal operation because the sand may enter the switch gap, users are requested to flush the lifebuoy in time to ensure the service life of each component.

5. Lifebuoy slows down as driving time increases:

Cause and solution:The battery voltage will be declined as the lifebuoy driving time increases, So Please charging in time after using the lifebuoy.

General problem handling

1. The remote control and lifebuoy can not work after being turned on

Cause and solution:The lifebuoy is locked by default after being turned on, need to press the remote controller "H" button to unlock it.

Warning Statement

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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:

- 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.

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