

DETECTORPRO LIFESAVER

REMOTE CONTROL LIFEBOUY

www.LifesaverRescue.com



DETECTORPRO LIFESAVER

Thank you for your purchase. The Lifesaver incorporates intelligent systems to help rescue distressed swimmers efficiently. Please become familiar with this user manual and practice the modes of operation.

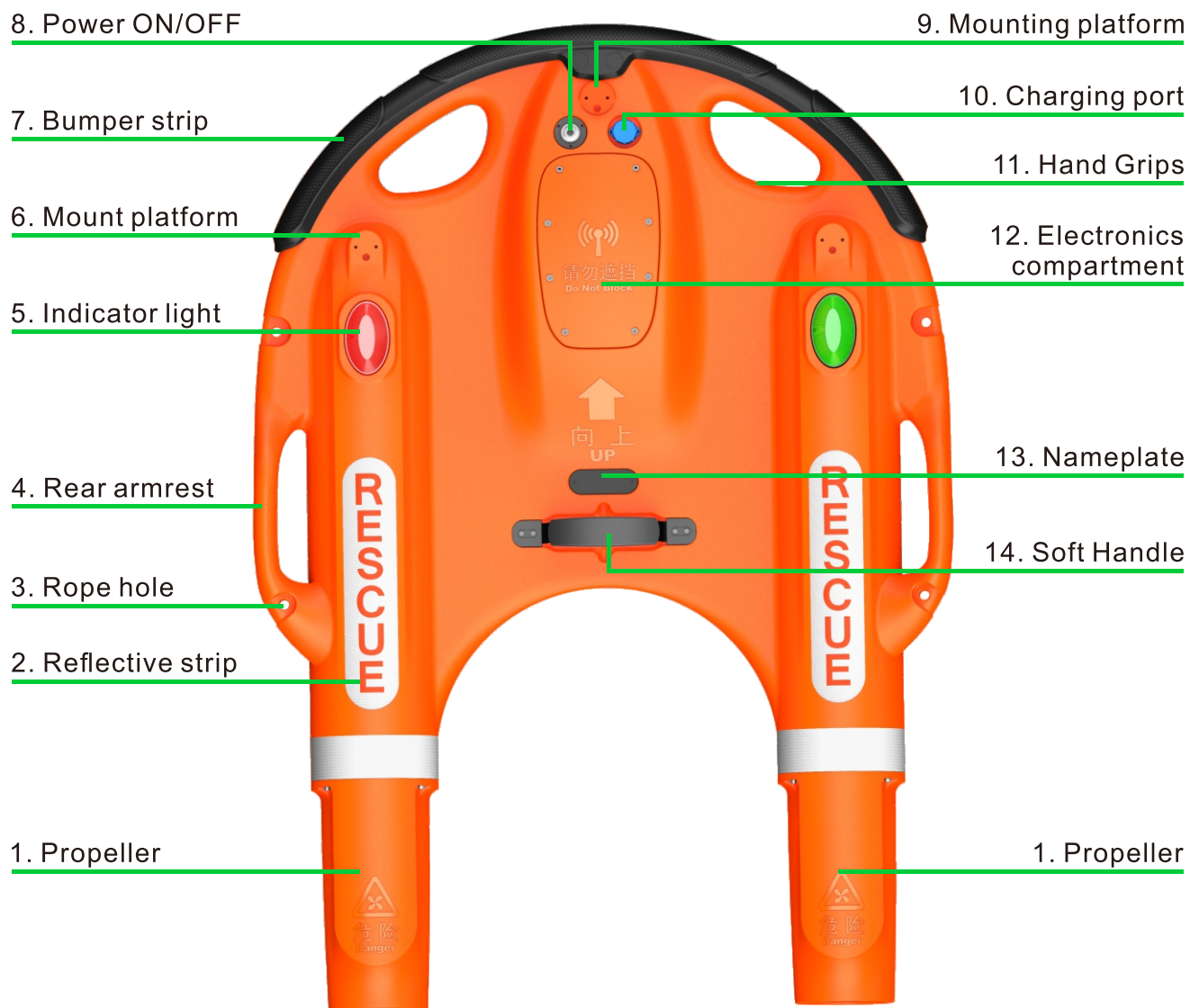
Included:

Lifesaver Rescue Unit
Lifesaver Battery Charger with Adapter
Remote Control with Charger
Bracket to Mount Gopro Camera
User Manual
Certificate of Conformance

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Features



Description of Features

1. Propeller: high power dual propellers
2. Reflective strips
3. Rope holes: a safety rope with a diameter of 10mm or less can be used
4. Side handgrips
5. Indicator lights
6. Mounting platform: to mount external equipment such as lights or GoPro Cameras
7. Rubber Bumper protective strip
8. Power ON/OFF Button
9. Mounting Platform
10. Charging port
11. Hand Grip Area
12. Sealed electronic equipment compartment: Because there is a satellite positioning module in the equipment compartment, please do not completely cover this area.
13. Nameplate
14. Soft handle: easy to extract, grasp, etc.

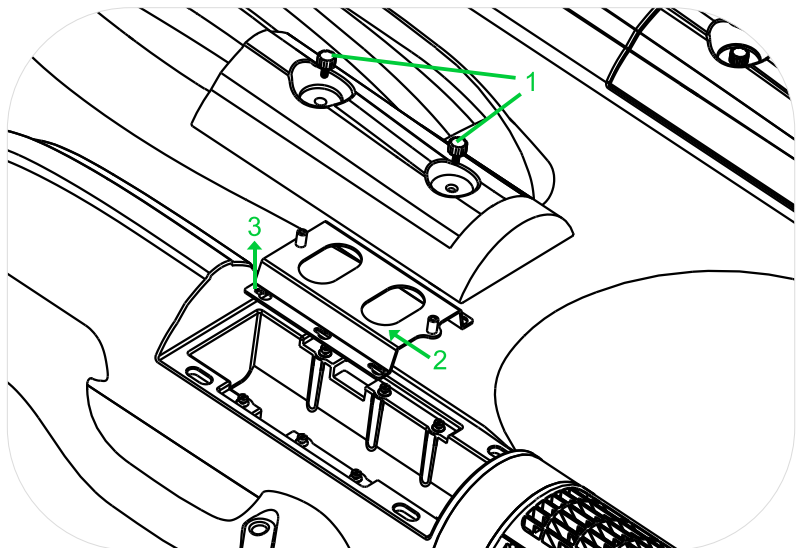
The Lifesaver has a special airframe hull design for high speed travel with minimum power consumption.

Initial Battery Installation

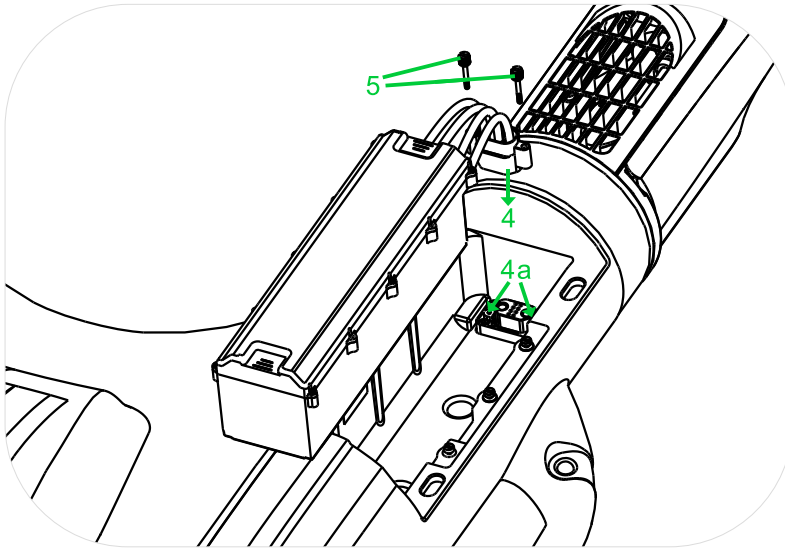
Before using your Lifesaver the first time, you will need to install both batteries into the Lifesaver.

Follow these steps:

1. Unscrew both screws (1) on battery cover and remove cover.
2. Push up the metal fixing plate and lift to remove (2,3).

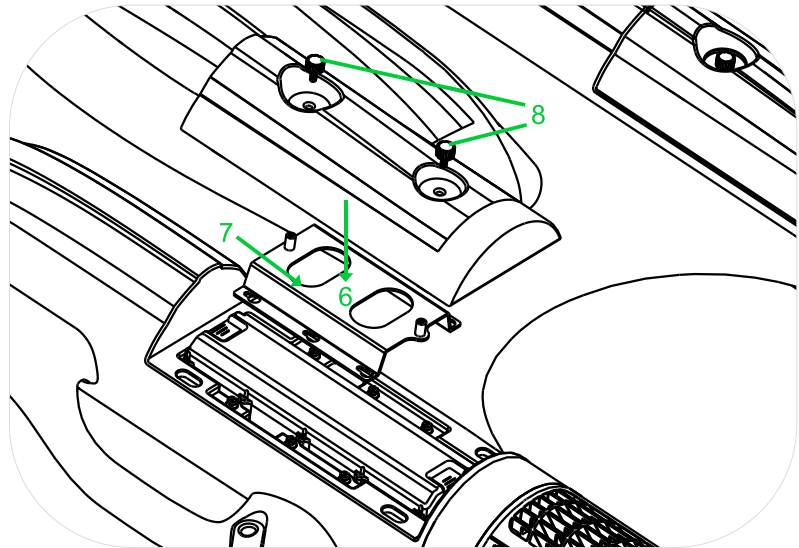


Initial Battery Installation (Continued)



3. Remove both screws from the battery plug socket (4a), Insert the battery plug (4) securely into the socket then use the two screws (5) to secure the plug. Place the battery into the battery slot.

4. Secure metal fixing plate by pushing down and sliding over to lock into place (6,7).
5. Tighten the two battery cover screws (8).



Make sure that the battery fixing plates are securely in place and the battery compartment cover is secured.

Before Each Use Checklist

Make sure...

- The waterproof screw-on cover for the charging port on the Lifesaver is tightened.
- The water inlet grille and nozzle of the propellers are unobstructed.
- The motor shaft and impeller are not entangled with debris.
- The Lifesaver and remote control are fully charged.
- The user is completely familiar with the operating instructions.

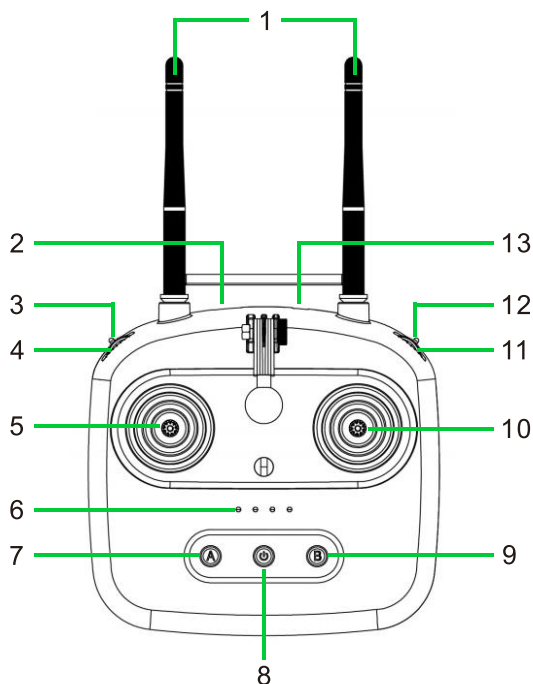
Basic Points to Remember

- Before launching the Lifesaver, go through the "Before Each Use Checklist".
- ALWAYS turn the remote control ON first and then turn ON the Lifesaver.
- When powering down, ALWAYS turn OFF the Lifesaver first and then the remote control.
- Do not run the motor for more than a few seconds out of the water.
- Keep fingers and other objects away that may get caught in the propeller grill.
- The remote control is not waterproof. Keep out of rainy weather and always use the supplied lanyard to wear the remote around your neck so the remote is not accidentally dropped in the water.
- During the rescue process, when the Lifesaver approaches the vicinity of the distressed swimmer, always approach with caution using Manual Mode.
- Thoroughly clean the Lifesaver with fresh water after each use.
- After use let the Lifesaver stand for 30 minutes before charging. The Lifesaver can be left charging even after the charging light turns green. Once the green light shows on the charger, the Lifesaver is fully charged and the charger will go into trickle charge mode to ensure full battery power is maintained.
- After fully charging the Lifesaver, it will operate for 40 minutes continuously at full power.
- Important to know that button A on the remote is what engages and disengages the motors. At any time, when traveling in any mode, pressing button A will shut off the motors. You will need to press button A again to engage the motors.
- Only use original OEM parts when service is needed.

Important Warning Notice

The Lifesaver is a professional piece of rescue equipment and is not suitable for children.

Remote Control Functions



1. Antenna: Make sure the dual antennas are parallel to each other and facing the sky for optimum signal strength.
2. USB charging port: for USB charging
3. Non Operational
4. Non Operational
5. Left joystick: Used to control the Lifesaver's forward and reverse direction.
6. Power Indicator lights
7. Button A: used to enable/disable motors on the Lifesaver.
8. On/Off button
9. Button B: used to switch between operating modes.
10. Right joystick: used to control the Lifesaver's left and right steering.
11. Non Operational
12. Non Operational
13. USB data transmission port: used for data transmission.

Meaning of Button A and button B on Remote Control

On= Lit Off = not Lit

Button A	Button B	Operation	Comments
Off	Off	Manual mode, the motors are disabled	Cannot be operated, the motors are disabled
On	Off	Manual Mode, the motors are enabled	Can be operated in Manual Mode
On	On	Course Correction Mode, the motors are enabled	Can be operated in Course Correction Mode
Off	On	Course Correction Mode, the motors are disabled	Cannot be operated, the motors are disabled
On	Flashing	Return Home Mode	Joysticks are disabled and the Lifesaver will travel back to Home GPS point automatically
Off	Flashing	Return Home Mode, the motors are disabled	Return home will not be performed, the motors are disabled

Operation Modes

Make sure the Lifesaver and Remote are fully charged before proceeding

Manual: for quick start/fast rescue

Press and hold the On/Off button on your remote, four LEDs will light up in sequence and the remote will beep three times; immediately after the three beeps, release the On/Off button. Both button A & B should not be lit. If either one is lit, press/release to turn off. With the remote ON and the Lifesaver OFF, you will hear the remote beep once every few seconds and this is normal.

With the remote now powered On, place the Lifesaver safely nearby and press/release the On/Off button on the Lifesaver. The blue/green lights will blink rapidly for a second or two then the Lifesaver will “beep” every second and the remote will stop beeping indicating the remote and Lifesaver are now connected. The blinking green lights on the Lifesaver will turn blue once a GPS signal is found.

Press/release button A on the remote to engage the motors and you will see the red/green sailing lights flashing on the Lifesaver. You are now in Manual Mode and can control the Lifesaver with the joysticks. The left joystick is for forward and reverse; the right joystick is for steering. NEVER run the Lifesaver out of the water for more than a few seconds to avoid overheating the motors.

Important connection note: In rare cases where strong electromagnetic interference is present, you may have trouble connecting between the Lifesaver and remote. If this happens, turn off your Lifesaver then turn it back on and press the power button 6 times. Then power On your remote and the connection will be established.

Course Correction Mode: This is a helpful mode for long distance rescue when it is necessary for the Lifesaver to travel a long straight line.

Launch the Lifesaver in Manual Mode (only button A lit on the remote) and use the joysticks to point the Lifesaver in the direction of the distressed swimmer. Once this is done, press/release button B and you will be in Course Correction Mode. Both button A & B will be lit. In this mode, the Lifesaver will automatically redirect itself to keep on a straight line course even if waves or wind try to push it off course. You will still control the forward speed with the left joystick but the steering will self-correct to maintain a straight line towards the swimmer. If you find the swimmer has drifted or if you need to slightly correct the course, the right joystick will allow you to adjust the direction and then the Lifesaver will continue in a new straight line. **IMPORTANT NOTE:** In this mode, the Lifesaver travels at a very high speed IMMEDIATELY upon using the joystick. In Course Correction mode, there is no gradual increase in speed like you have in Manual Mode. Make sure you have a clear straight line to the swimmer and **when you get within 10 yards of the swimmer Press/release button B to turn Off Course Correction Mode and then continue the rescue in Manual Mode with just button A lit on the remote.**

Return Home Mode: This mode is for having the Lifesaver automatically return to a GPS coordinate that either you establish or where the Lifesaver was first launched. It is a safety feature so you don't lose your Lifesaver if it ever travels beyond the range of the remote (more than 800 yards) or the remote loses power. It is not recommended to use the Return Home mode while rescuing someone: Instead use Manual Mode for the rescue and either or Manual or Course Correction Mode to return the distressed swimmer.

Power On the remote, both buttons A and B are not lit. Power On your Lifesaver and green lights will be flashing indicating it is looking for a GPS signal. You will know GPS is connected when the flashing side lights turn from green to blue. With good satellite reception conditions, this will happen quickly. Now press button A on the remote and you will engage the motors seeing the red port and green starboard lights flash indicating the motors are engaged. The location where you engage the motors is where the Home GPS point is automatically set. The blue lights on the Lifesaver will now solidly be lit indicating your Lifesaver is connected to GPS and the motors are engaged.

To start the Return Home mode, while the Lifesaver is well off shore, press and hold button B until it starts flashing. At this point, the joysticks on your remote will not operate and the Lifesaver will travel a straight line back to where you first turned on the remote & launched the Lifesaver. NOTE: this is an automated mode so you need to make sure there are no swimmers or debris within the straight line between you and the Lifesaver. It is recommended that you set your GPS home point at least 20 feet off shore so the Lifesaver does not run aground. You can also disable Return Home mode anytime by pressing button B. Then you can manually bring the Lifesaver to shore.

How to set an off shore GPS Home Point:

Make sure you have a GPS connection (blue lights on Lifesaver) then launch the Lifesaver in Manual Mode using the joysticks to travel off shore about 20 feet or so; press/release button A to turn it off then press button B and hold for 3 seconds until it is flashing. Then press button A and this will be your new Home point. Now press button B to exit Return Home mode and operate in either Manual or Course Correction Mode. At any time while traveling in Manual or Course Correction Mode, press button A, wait 2 seconds and press button A again to set a new GPS Home Point. .

In Return Home Mode, once the Lifesaver reaches the off shore Home point, it will stop traveling and you will need to bring it to shore in Manual Mode by turning off button B and just having button A lit.

While in Return Home mode, when the Lifesaver exceeds the remote control distance or other factors cause the signal to be lost for more than 10 seconds, the Lifesaver will automatically start to return to the GPS home point. When the Lifesaver is back in range of the remote control, it will stop and the user can return the Lifesaver in Manual Mode. It is important to know that button A is what engages and disengages the motors. At any time, when traveling in any mode, pressing button A will shut off the motors. You will need to press button A again to engage the motors.

Right Side Up Feature:

If the Lifesaver flips upside down while you're operating in the Manual Mode, you can pull and hold the left joystick back (reverse) to flip it right side up. While in the course correction mode, the Lifesaver will automatically flip right side up. (Make sure the water depth exceeds 4.5 feet when flipping).

Charging the Lifesaver:

When the charger is plugged into the Lifesaver, the green light on the charger will change to red and it will turn back to green when the Lifesaver is fully charged. Once fully charged, the charger will continue to keep the Lifesaver fully charged by emitting a "trickle charge". No danger of overcharging the Lifesaver.

Charging the Remote:

When the charger is plugged into the remote, 4 blue LED lights and the power button will flash while charging. When fully charged, the lights will all be solid blue. Once fully charged, the charger will continue to keep the Remote fully charged by emitting a "trickle charge". No danger of overcharging the Remote.

Specifications:

Size	3.8' X 2.7' X 0.7'
Weight	39 lbs
Buoyancy	600 lbs
Maximum no-load speed	21 Feet per second
Manned speed with a 165 lb person	6.5 Feet per second
Working time after full charge	40 Minutes Continuous
Return home accuracy	+/- 6 Feet
Remote control distance	2600 Feet (This data is measured by the remote control at a height of 4.5 Feet on a horizontal plane over open water. The actual distance depends on the site environment.)
Storage temperature	-4 degrees – 140 degrees
Working temperature	32 degrees – 120 degrees
Charging temperature	32 degrees – 113 degrees