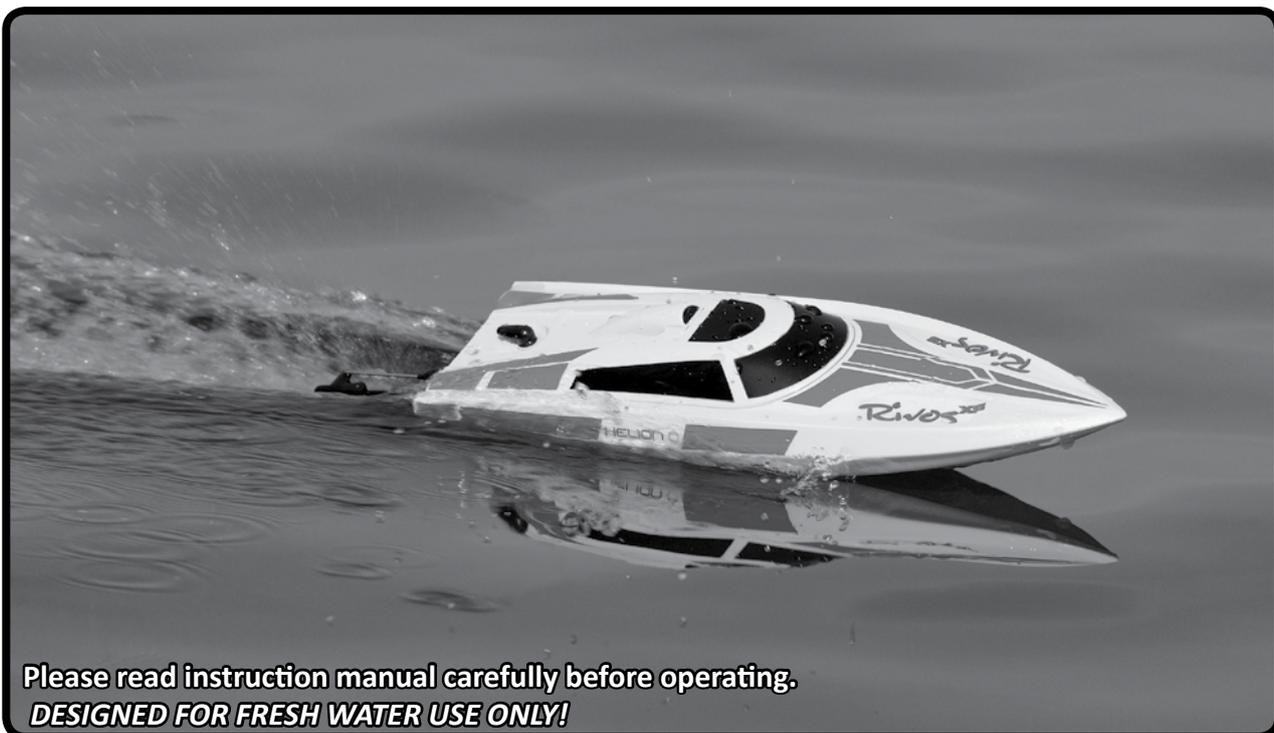




Rivos^{XS}

Operating Instructions

2.4GHz Radio Controlled Model Boat



Please read instruction manual carefully before operating.
DESIGNED FOR FRESH WATER USE ONLY!

SPECIFICATIONS:

Hull length:	9.06" (230.2mm)
Overall length:	10.88" (276.2mm)
Battery:	360mAh 2S Li-ion
Charger:	2S USB charger
Radio System:	2CH 2.4GHz Pistol Grip w/2-in-1 receiver
Motor:	Brushed 180 (Water-Cooled)
Propeller:	0.69" (17.5mm) 2 included

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For the most up to date instruction manual and helpful setup and maintenance videos go to:

www.helion-rc.com

Introduction

The Rivos XS is the perfect size boat for fun either on the pond or at the pool. The attractive hull is made from durable, injection-molded ABS and decorated with your choice of two race-inspired, pre-applied trim schemes. Plus, the transmitter comes with a steering wheel that matches the trim colors of the boat, so when you're out racing with your friends you'll never have a problem figuring out which transmitter goes with your boat.

The Rivos XS comes with a 2-in-1 receiver/speed control installed and is powered by a 180-size water-cooled motor. Both are protected from moisture by a sealed, water-resistant hatch that covers all the internal components. The XS also includes two pre-installed trim tabs that help the boat run smoothly over the water and a turning fin that keeps it from spinning out in even the fastest of turns.

The Rivos XS is a RTR (Ready-To-Run) boat that comes 100% factory-assembled and includes a 2-channel, 2.4GHz radio that features fully proportional steering and throttle control, a 360mAh 7.4V Li-ion battery and a charger that conveniently plugs into a USB outlet. All you need to add are the AA batteries needed to operate the transmitter, and you can be racing around your pond or pool just minutes after opening the box!

Contents



Rivos XS Boat RTR (HLNB0050)

HLNB0068	7.4V, 360mAh Li-ion Battery
HLNB0070	USB Li-ion DC Charger
HLNB0069	2-Channel 2.4GHz Transmitter, Red/White
HLNB0065	Propellers (2 provided)

FCC Information

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.

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

This product contains a radio transmitter with wireless technology which has been tested and found to be compliant with the applicable regulations governing a radio transmitter in the 2.400GHz to 2.4835GHz frequency range.

The associated regulatory agencies of the following countries recognize the noted certifications for this product as authorized for sale and use: USA, UK, EU and AUS

Safety Precautions

Failure to use this product in the intended manner as described in the following instructions can result in damage and/or personal injury. A Radio Controlled (RC) boat is not a toy! If misused it can cause serious bodily harm and damage to property.

Keep items that could become entangled in the propeller away from the propeller, including loose clothing, tools, etc. Be especially sure to keep your hands, face and other parts of your body away from the propeller. As the user of this product you are solely and wholly responsible for

operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

This model is controlled by a radio signal that is subject to possible interference from a variety of sources outside your control. This interference can cause momentary loss of control so it is advisable to always keep a safe distance from objects and people in all directions around your model as this will help to avoid collisions and/or injury.

- Never operate your model if the voltage of the batteries in the transmitter is too low.
- Always operate your model in an open area away from obstacles, people, vehicles, etc.
- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable batteries, etc.).
- Keep all chemicals, small parts and all electronic components out of the reach of children.
- As much as possible, avoid water exposure to all internal electronic components, parts, etc.

Li-ion Battery Warnings

IMPORTANT NOTE: Lithium Ion batteries are significantly more volatile than the alkaline, NiCd or NiMH batteries also used in RC applications. All instructions and warnings must be followed exactly to prevent property damage and/or personal injury as mishandling of Li-ion batteries can result in fire.

By handling, charging or using the included Li-ion battery you assume all risks associated with Li-ion batteries. If you do not agree with these conditions please return the complete product in new, unused condition to the place of purchase immediately.

Although the 360mAh 2-Cell/2S 7.4V 25C Li-ion Battery (HLNB0068) included with the Rivos XS is intended to be charged safely using the included 2-Cell/2S 7.4V USB Li-ion Balance Charger (HLNB0070) you must read the following safety instructions and warnings before handling, charging or using the Li-ion battery.

You **MUST** charge the Li-ion battery in a safe area away from flammable materials.

NEVER charge the Li-ion battery unattended at any time. When charging the battery you should **ALWAYS** remain in constant observation to monitor the charging process and react immediately to any potential problems that may occur.

After using/discharging the battery you must allow it to cool to ambient/room temperature before recharging.

To charge the Li-ion battery you **MUST** use only the included Li-ion USB charger or other dedicated Li-ion battery charger. Failure to do so may result in a fire causing property damage and/or personal injury. **DO NOT** use a NiCd or NiMH charger.

If at any time during the charge or discharge process the battery begins to balloon or swell, discontinue charging or discharging immediately. Quickly and safely disconnect the battery, then place it in a safe, open area away from flammable materials to observe for at least 15 minutes. Continuing to charge or discharge a battery that has begun to balloon or swell can result in a fire. A battery that has ballooned or swollen even a small amount must be removed from service completely.

Store the battery at room temperature, approximately 68–77° Fahrenheit (F), and in a dry area for best results.

When transporting or temporarily storing the battery, the temperature range should be from approximately 40–100°F. Do not store the battery or model in a hot garage, car or direct sunlight

whenever possible. If stored in a hot garage or car the battery can be damaged or even catch fire!

Do not over-discharge the Li-ion battery. Discharging the Li-ion battery too low can cause damage to the battery resulting in reduced power, flight duration or failure of the battery entirely.

Li-ion cells should not be discharged to below 3.0V each under load.

The control unit has low voltage cutoff (LVC) protection. When the battery voltage drops below a set point the throttle is gradually reduced. At this point the battery should be recharged.

Battery Install and Charging

Install Batteries in Transmitter

Slide the battery door off of the bottom of the transmitter and install 4-AA batteries (not included). Make sure to check the orientation of the cells, the correct orientation is indicated inside the battery box. Slide the battery box door back in place.



Charge 2-Cell Drive Battery

Locate the USB charger and the 360mAh Li-ion battery pack. Plug the USB charger into suitable USB power source and a red LED will light indicating power. Plug the female balance connector from the charger into the male balance connector on the battery. When the charge is complete a green LED will light in addition to the red LED.

For faster charging we suggest purchasing a Radiant charger - either the Primal Charger (RDNA0001) or Ascend Charger (RDNA0002).

Both are available exclusively at your local Hobby Town store.

Transmitter Details

The Rivos includes a pistol grip 2-channel transmitter equipped with 2.4GHz technology, digital trim and servo reversing.



Power Switch is located on the upper end panel of the pistol grip. Slide the switch UP for ON and DOWN for OFF. When ON the power indicator LED will light red.



Adjusts Dual Rates for the steering channel. The 70/30 position is High Rates and the 50/50 position is Low Rates. When driving at high speed the low rates will reduce the chance of tipping over.



Servo reversing switches. If the direction of travel on the rudder is backwards, slide the steering reverse switch to the other position. Same principle for the throttle reverse switch.



Bind Button

Press and hold the bind button while turning on the transmitter. The transmitter will emit a beeping noise. Plug the 2 cell Li-ion battery into the boat. The speed control will blink and then go solid. When the LED is solid you are bound and ready to go.

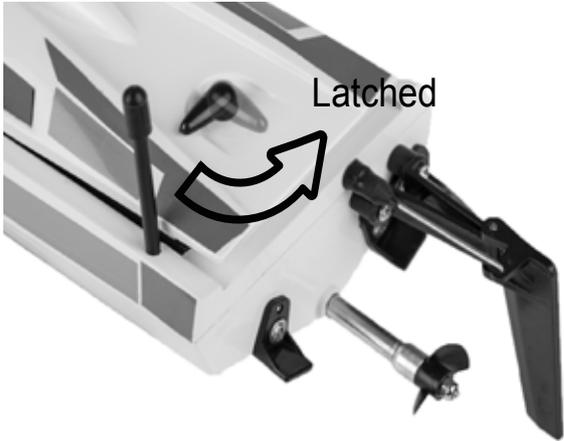
Preparing your Boat



Slide your fully charged drive battery into the hull and attach to the hook-and-loop fastner in the hull.



With your transmitter turned on, plug the drive battery into the speed control.



Place the top hatch in position and rotate the latch counterclockwise 90° to secure.

Important

Do not arm the boat motor until you have placed the boat into the water.

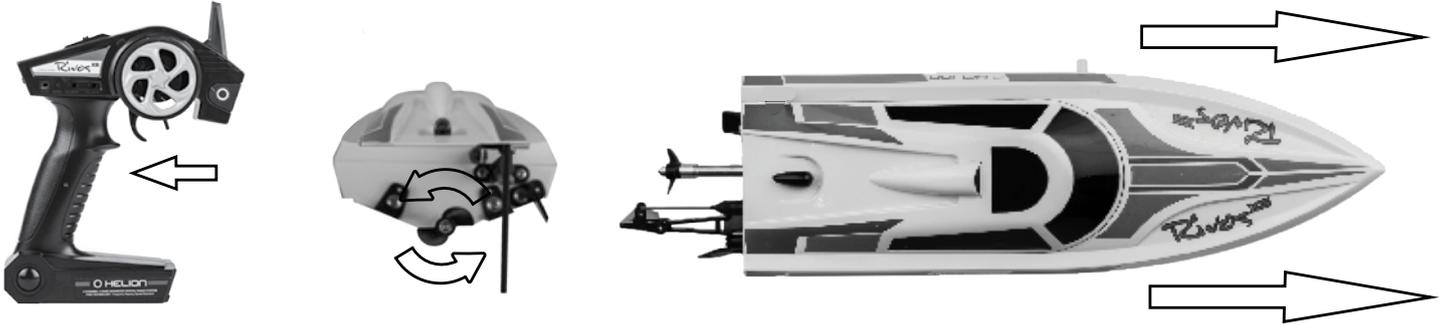
Once in the water, arm the motor by pulling the throttle trigger to the rear and back to neutral. The next time that you pull the throttle trigger to the rear the motor will start.

Low Voltage Cutoff

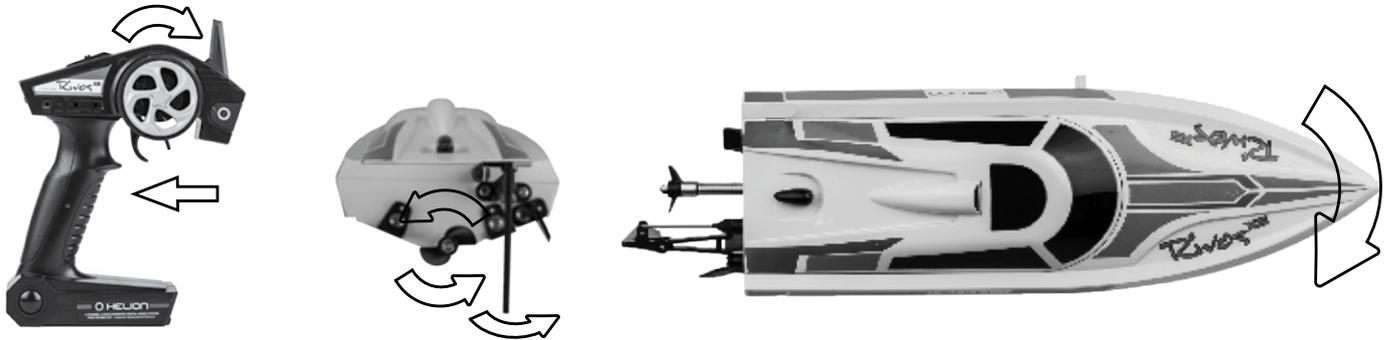
The Rivos XS speed control is equipped with a low voltage cutoff (LVC) circuit. When the Li-ion battery voltage drops too low, the speed control will shut off power to the motor. Motor function can be restored by cycling the throttle trigger off and then back on at a low power setting. At this point you should return the boat to shore and recharge the drive battery. Repeatedly attempting to continue operation may drop the battery voltage to damaging levels.

How to Operate your Boat

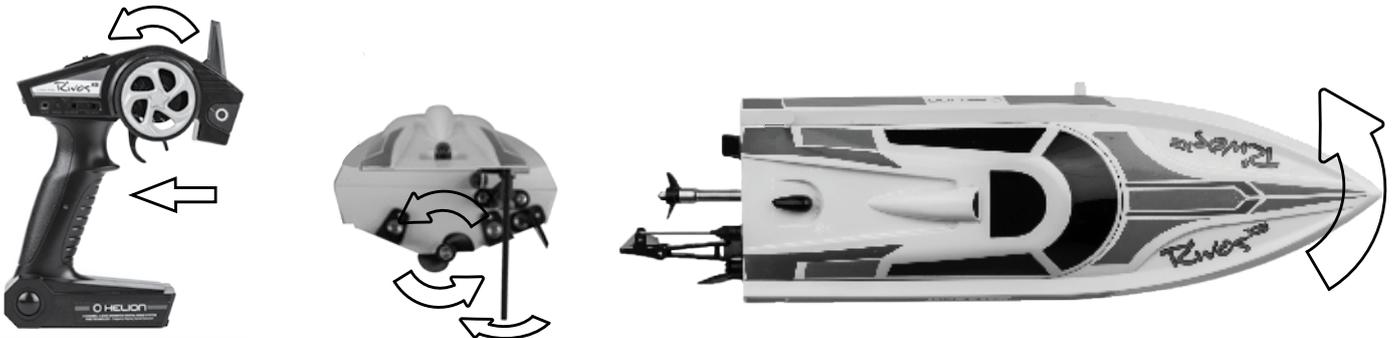
Place your boat in the water.



Pull the trigger toward you and back to neutral to arm the motor and then pull it towards you to make the boat go forward. The speed control is proportional, the farther you pull it the faster the boat will go. Release the trigger to stop.



To initiate a right turn, rotate the steering wheel clockwise while holding the trigger to the speed setting you desire.



To initiate a left turn, rotate the steering wheel counter-clockwise while holding the trigger to the speed setting you desire. For the smoothest turns rotate the steering wheel slowly and make your transitions at a smooth even pace.

After Running

When you have finished running your Rivos XS it is important to follow these steps.

- Unplug the battery from the ESC
- Turn off the transmitter
- Remove the battery from the boat
- Wipe excess water off with a soft cloth

Tip:

Always store the boat with the hatch removed to prevent mold and mildew growth

Maintenance and Inspection

Check for excess water in the hull after every use. If you do find excess water in the hull, pay special attention to installing the top hatch, ensuring a tight seal.

Always unplug the battery after each use and charge it outside of the hull.

After use, store the boat in the shade or inside to prevent the sun fading the decoration.

Never use chemicals to clean the boat as this may also damage the finish.

The boat is designed for fresh water use ONLY. If the boat comes in contact with brackish or salty water, remove battery and wash the boat thoroughly with fresh water as soon as possible to remove the salt residue.

After use clean the boat using fresh water. Make sure you dry the boat inside and out using a dry cloth or paper towel. This will keep the hull and hatch of the boat looking clean and new.

When you are finished using the boat, make sure you remove the batteries from both the boat and the transmitter. This will prevent damage in the event of a battery leak.

The main prop shaft requires periodic lubrication with marine grease. See www.Helion-rc.com for maintenance updates and videos.

Rivos Spare Parts

HLNB0050	Rivos XS Micro RTF boat
HLNB0052	Hull; Red: Rivos XS
HLNB0053	Hull; White: Rivos XS
HLNB0054	Cover; Red: Rivos XS
HLNB0055	Cover; White: Rivos XS
HLNB0056	Cover Latch w/ Screw: Rivos XS
HLNB0057	Water Cooling Tube: Rivos XS
HLNB0058	Rudder Push Rod: Rivos XS
HLNB0059	Rudder w/ Screw Set: Rivos XS
HLNB0060	180 Size Motor w/ Connector: Rivos XS
HLNB0061	Metal Motor Adapter: Rivos XS
HLNB0062	Motor Mount w/ Screw Set: Rivos XS
HLNB0063	Propeller Assembly & Shaft: Rivos XS
HLNB0064	Propeller Shaft: Rivos XS
HLNB0065	Propellers (3): Rivos XS
HLNB0066	2-in-1 Board: Rivos XS
HLNB0067	9 gram servo: Rivos XS
HLNB0068	7.4V 360mAh Li-ion Battery w/ JST: Rivos XS
HLNB0069	2-Channel 2.4GHz Transmitter: Rivos XS
HLNB0070	5V USB Charge Cord: Rivos XS
HLNB0071	Trim Tabs, Turning Fin & Hardware: Rivos XS
HLNB0072	Velcro Set/Battery Holder: Rivos XS
HLNB0073	Plastic Nose Cone; Rivos XS

Warranty



HELION

Exclusively Available at HobbyTown 30 Day Limited Warranty

We warrant that the Product(s) purchased (the "Product") will be free from defects in materials and workmanship when the product is new (before being used) for the limited warranty term period, 30 days, from the date of purchase by the Purchaser.

If you believe a defect in material, workmanship, etc. was not apparent when the Product was new and only became evident after the Product was used, take the following steps. If you purchased the Product at a HobbyTown store, please contact your local HobbyTown store for warranty support and/or service. If you purchased the Product from the Firelands website, use the contact information found under the Support heading to contact Firelands directly.

If you contact Firelands, you may be asked to send the product to Firelands, at your cost, for inspection. Provided the warranty conditions have been met within the warranty term period, the components that are found to be defective, incorrectly manufactured or assembled may be repaired or replaced, at the sole discretion of Firelands. Your warranty item will be returned to you at Firelands' expense. In the event your product needs repair or a replacement part that is not covered by this warranty, your local HobbyTown store or Firelands can assist you with support and in obtaining the genuine replacement parts to repair your Product. Firelands will charge \$40.00 per hour plus the cost of replacement parts to service your vehicle if after contacting you, you so authorize such repairs. Your product will be returned to you at your expense.

If you purchased your Product from a HobbyTown Internet site not affiliated with a local store, please consult that site for its support and service policies. You can also find more information at:

www.Hobbytown.com

or by emailing customerservice@firelandsgroup.com

or call [800-205-6773](tel:800-205-6773)



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