Please make sure you read the entire instruction manual to become familiar with the features of your aircraft before operating. Failure to operate this product correctly can result in damage to the product or personal property – and even cause serious injury.

Please understand that this is a sophisticated hobby product and is not a toy. It must be operated with caution and common sense. Note that it does require some mechanical ability to correctly operate this product. Failure to operate in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt to disassemble or operate with incompatible components or make changes to the product without the approval of HRP Distributing.

This manual contains instructions for safety, operation, and maintenance. It is essential to read and follow all the instructions and warnings in the manual prior to final assembly, setup, or use.
Safety Precautions

As the owner and user of this product, you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or property.

- Be cautious with the propellers when the motors are running. Do not come into contact with rotating propellers as serious injury could result.
- Keep a safe distance, in all directions, around your aircraft to avoid possible collisions or injury. This aircraft is controlled by a radio signal that is subject to interference from many outside sources and could result in a momentary loss of control.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture can damage unprotected electronics.
- Make sure to keep all chemicals, small parts and anything electrical out of the reach of children.

Age Recommendations

This product is not a toy. Not for use by children under 14 years of age.

Battery Safety Precautions

Important Note: Lithium Polymer (LiPo) batteries are more volatile than the alkaline, NiCad and NiMH batteries used in other RC applications. All instructions and warnings must be followed exactly to prevent possible personal injury or damage to property, including by fire. By handling, charging, or using the included LiPo battery you assume all potential risks. If you do not agree with these conditions, please return your complete product in new, unused condition to the place of purchase immediately.

Important - Please read the following safety instructions and warnings before handling, charging, or using the included battery.

- You must charge your LiPo battery in a safe area away from any flammable materials.
- Never charge the LiPo battery unattended at any time. When charging the battery you should always remain in constant observation of the battery to monitor the process and react immediately to potential problems you observe.
- After discharging the battery during operation you must allow it to cool to ambient room temperature before attempting to recharge. Also, it is NOT recommended that you completely discharge the battery before charging. It is safe to charge partially discharged batteries when using an appropriate LiPo charger.
- For charging the battery you must use only the included charger. Failure to do so may result in a fire causing property damage and/or personal injury. DO NOT use a NiCad or NiMh charger to charge your new LiPo battery.
- 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 before placing it in a safe, open area away from flammable materials for observation for at least 15 minutes. Continuing to charge or discharge a battery that has started to “balloon” or swell can result in a fire. Important note: A battery that has “ballooned” or swollen even a small amount must be removed from service immediately and completely.
- Never discharge a LiPo battery below 3V per cell.
- Always disconnect a battery from the ESC when the product is not in use.
- Avoid continually operating the battery to LVC (Low Voltage Cutoff) as this could result in damage to the battery.
- Store the battery partially charged (approximately 50% charged or 3.85V per cell) at room temperature (approximately 68° to 77° Fahrenheit) in a dry area for best results.
- When transporting or temporarily storing the battery, the temperature range should be between 40° and 100°F. Do not store the battery inside a hot car or in direct sunlight or the battery could be damaged or even catch fire.
- LiPo cells should not be discharged below 3.0V each. In the case of this 1-cell, 3.7V battery you should not allow the voltage to fall below 3.0V during operation.
- Do not over-discharge the LiPo battery, doing so could result in reduced power, lower run times or complete failure of the battery.

NOTE: Your aircraft features a “soft” LVC (Low Voltage Cutoff) that smoothly reduces power (regardless of your throttle position) to let you know the battery is near the minimum voltage to avoid damage to your battery.
**Charging the Flight Battery**

Connect the USB charging adapter to a USB port on your computer or a USB power adapter. The red LED will illuminate.

Connect the lead from the battery to the lead from the charging adapter.

When the red LED light is on, the battery is fully charged.

---

**Transmitter Battery Installation**

Remove the screw from the battery cover using the supplied screwdriver. Press down on the arrow and slide the battery cover toward the bottom of the transmitter to remove.

Insert the four AA batteries. Align the + and - on the batteries and transmitter when installing the batteries.

Return the battery cover into position. Reinstall the screw to secure the cover.

---

**Landing Gear Installation**

Install the main landing gear by aligning the pegs on the gear with the holes in the bottom of the drone. The gear will angle out away from the drone when installed. The front and rear landing gear are different and will only fit the proper holes in the bottom of the drone.

---

**Blade Guard Installation**

Install the blade guards by aligning the pegs on the guards with the holes in the motor pods. Press the guards completely down so they are resting on the pods. Failure to do so may cause interference with the blades.

---

**Camera Installation**

Use the supplied screwdriver to attach the camera mount to the battery door.

The camera is then slid into position in the slots on the mount. Guide the camera control wire between the camera and mount as shown to prevent tangling or damage should your model land in tall grass.
Battery Installation

Connect the leads from the battery and the drone. Fit the leads and connectors into the drone, then slide the battery into position.

![Battery Installation Image]

Fit the battery cover tabs into the slots near the center of the body. You will need to start at an angle and twist the cover slightly to snap the tabs into place.

![Battery Installation Image]

Close the battery cover by sliding it into position.

Flight Preparation

Rest the drone on the landing gear on a level surface. Switch the power button on the bottom of the drone to the ON position. The LED lights on the drone will flash rapidly.

Next, turn on the transmitter. The LED lights on the drone will flash slowly once the transmitter and drone connect to each other.

Arming for Flight

Once the drone and transmitter connect you can then arm the drone for flight. Move the left stick (throttle) up slowly until the drone beeps. Move the stick down until the drone beeps again. Your drone is now ready for flight.

![Arming for Flight Diagram]

Once the drone has been armed, the LED lights will glow solid indicating it is ready for takeoff.

Auto Take-Off and Auto Landing

Press the trim lever next to the throttle stick up. The drone will then rise to a height of roughly 3 feet (1 meter) to begin its flight.

![Auto Take-Off and Auto Landing Diagram]

Pressing the trim lever next to the throttle stick down will enter landing mode. The power will quickly decrease and stop the motors once the drone has landed safely.
Flight Controls

The following illustrates the flight controls and responses for your drone:

**Vertical - Up and Down**

![Vertical control](image)

**Rotation**

![Rotation control](image)

**Fore and Aft**

![Fore and Aft control](image)

**Left and Right**

![Left and Right control](image)

Rates

Your drone has three flight modes available. These are:

- **Low Rate** (30%): Slower response for the beginning pilot.
- **Mid Rate** (60%): Quicker response for the intermediate pilot.
- **High Rate** (100%): Extreme flight response for the advanced pilot.

Push the button on the top left of the transmitter until it clicks and beeps to cycle through the flight modes. One beep indicates Low Rate, two beeps indicates Mid Rate and three beeps indicates High Rate.

The transmitter will initialize to 50% (between Low and Mid rates) when switched on. We recommend starting with this rate, or switching to the Low Rate, until you get acquainted with your drone.

Trimming Your Model

![Trimming control](image)

If your drone drifts right-left or fore-aft, you can fine tune your drone to eliminate this drift. Use the trim levers to eliminate any drift.
Orientation Modes

Your drone has two orientation modes:

**Standard Mode**: The drone will always associate the front (with the camera) as the front. This is recommended for normal piloting. The lights will glow steadily in this mode during flight.

**Heading Lock Mode**: The path of the drone will always follow the transmitter inputs (the front of the model as the edge facing away from the pilot). This feature can be helpful for beginning pilots when you have lost orientation of the drone. Pressing this button and using the instruction for aft control (pulling down on the right control stick) on page 5 of the manual will bring the drone back towards the pilot. The lights will flash in this mode during flight.

Push the upper button to toggle between the standard and heading lock modes.

Auto Reverse

Pressing the middle feature button will make the aircraft fly back in the direction that is opposite from where it was facing when the flight was started. This function can be helpful when the aircraft is getting out of visibility to pull it back to the vicinity of the pilot. It can also be used to pull the aircraft back if you are flying towards an obstacle.

LED Lighting

You can turn the lighting on or off using the lighting button on the transmitter. Press the button to toggle the lights on or off.

3D Flip Mode

Pressing the upper right button on the transmitter will enter the 3D flip mode. A series of beeps will indicate the mode is active. Move the right stick in the direction you wish your drone to flip. Make sure to hover at least 3 feet above the ground and allow for a minimum of 3 feet above your drone before initiating the flip.
WiFi UFO App

A mobile device app is available for your drone. All camera functions, including both videos and photos, are operated via the app. The app can also be used to operate your drone. You can also use the included VR (virtual reality) goggles to view VR footage from the camera through the app. The following QR codes will direct you to the download locations:

Android

iOS

Using the VR Goggles*

Using the VR goggles will require the installation of the WiFi UFO App. Follow the instructions for downloading and installing the app in the previous section of this manual. To install your smart phone in the goggles, open the goggles by pressing the release button on the goggles which will cause them to unfold. Then, place your phone inside the goggles so the flaps move back to hold your phone in place. Once the phone is secure, fit the strap around your head so the goggles are secure. Fly your drone using the transmitter and enjoy the VR experience!

Using the VR Transmitter Mount*

Using the VR transmitter mount will require the installation of the WiFi UFO App. Follow the instructions for downloading and installing the app in the previous section of this manual. Remove the screws from the mount, then attach it to the transmitter using the screws and the supplied screwdriver. Snap the phone mount on the ball of the transmitter mount. Open the spring-loaded mount and fit your phone into the mount. Fly your drone using the transmitter.

* It may be necessary to remove the case from your phone to fit into the goggles or transmitter mount.

Once downloaded, prepare your drone for flight. From the settings screen of your mobile device, use WiFi to connect to the drone (WiFiUFO-**). Open the app and tap the play icon to enter the operation screen. Tapping the “?” will provide instructions for the controls on the operation screen.
<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmitter LED does not light</td>
<td>On/off switch is in the off position</td>
<td>Move the switch to the on position</td>
</tr>
<tr>
<td></td>
<td>Batteries are not installed correctly</td>
<td>Re-install the batteries correctly</td>
</tr>
<tr>
<td></td>
<td>The batteries are exhausted</td>
<td>Replace the batteries</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drone can not be controlled</td>
<td>The transmitter is not switched on</td>
<td>Switch on the transmitter</td>
</tr>
<tr>
<td></td>
<td>The flight battery is not charged</td>
<td>Charge the flight battery using the supplied charger</td>
</tr>
<tr>
<td></td>
<td>The flight battery is not installed</td>
<td>Install the flight battery</td>
</tr>
<tr>
<td></td>
<td>The transmitter and drone channels are not synchronized</td>
<td>Turn off both transmitter and drone. Follow the instructions “Flight Preparation.”</td>
</tr>
<tr>
<td></td>
<td>There is too much wind</td>
<td>Wait to fly until there is less wind</td>
</tr>
<tr>
<td>Drone will not take off</td>
<td>Rotor speed is too low</td>
<td>Increase the movement of the left stick toward the top of the transmitter.</td>
</tr>
<tr>
<td></td>
<td>The flight battery is not charged</td>
<td>Charge the flight battery using the supplied charger</td>
</tr>
<tr>
<td>Drone lands without input</td>
<td>The flight battery is not charged</td>
<td>Charge the flight battery using the supplied charger</td>
</tr>
</tbody>
</table>

**Spare Parts**

See your local hobby shop or place of purchase first. If unavailable, parts can be ordered direct at www.ragerc.com or call 800.622.7223 M–F 9:00–5:00 mountain time.

- RGR4000  Stinger 240 FPV RTF Drone
- RGR4046  Propeller Set (4); Stinger 240
- RGR4048  Replacement Motor (CW); Stinger 240
- RGR4050  Motor and Gearbox (CW); Stinger 240
- RGR4052  Motor Cover: Stinger 240
- RGR4054  1S 3.7V 650mAh Lipo Battery; Stinger 240
- RGR4056  USB Charger; Stinger 240
- RGR4058  200M WiFi Camera; Stinger 240
- RGR4045  Body Set; Stinger 240
- RGR4047  Prop Saver Set (4); Stinger 240
- RGR4049  Replacement Motor (CCW); Stinger 240
- RGR4051  Motor and Gearbox (CCW); Stinger 240
- RGR4053  Landing Gear Set (4); Stinger 240
- RGR4055  Battery Cover; Stinger 240
- RGR4057  2.4GHz Transmitter; Stinger 240
Limited Warranty

Warranty Period: Rage R/C warrants that the Stinger 240 ("Product") will be free from original factory defects in materials and workmanship upon purchase ("Warranty Period").

What is Not Covered - This warranty is not transferable and does not cover (a) cosmetic damage, (b) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (c) modification to any part of the Product, (d) attempted service by anyone other than a Rage R/C authorized service center, or (e) Product not purchased from an authorized Rage R/C dealer.

OTHER THAN THE EXPRESS WARRANTY ABOVE, RAGE R/C MAKES NO OTHER WARRANTY OR REPRESENTATION, AND THEREFORE DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND SUITABILITY FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL MEET THE REQUIREMENTS OF THEIR INTENDED USE.

Purchaser’s Remedy - Rage R/C’s sole obligation and purchaser’s sole and exclusive remedy shall be that Rage R/C will, at its option, either (a) service, or (b) replace, any Product determined by Rage R/C to be defective. Rage R/C reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Rage R/C. Proof of purchase is required for all warranty claims.

SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER’S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability - RAGE R/C SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF RAGE R/C HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Further, in no event shall the liability of Rage R/C exceed the individual price of the Product on which liability is asserted. As Rage R/C has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law - These terms are governed by Utah law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Rage R/C reserves the right to change or modify this warranty at any time without notice.

Rage R/C, an exclusive brand of:
HRP Distributing, Inc.
2034 South 3850 West
Salt Lake City, Utah 84104
Use this page for flying notes