

VOLANTEXRC EXA76102

VOLANTEXRC Ranger600 Stunt RC Glider Airplane Instruction Manual

Model: EXA76102

1. INTRODUCTION

Thank you for choosing the VOLANTEXRC Ranger600 Stunt RC Glider Airplane. This remote-controlled aircraft is designed for both beginners and experienced pilots, featuring a 6-axis gyro stabilizer system, multiple flight modes, and one-key aerobatic functions. Its durable construction and efficient design provide extended flight times and ease of use. Please read this manual thoroughly before operating the aircraft to ensure safe and optimal performance.



Image 1.1: The VOLANTEXRC Ranger600 Stunt RC Glider Airplane, including the aircraft, remote control, and two lithium-ion batteries.

2. WHAT'S IN THE BOX

The VOLANTEXRC Ranger600 Stunt RC Glider Airplane package includes the following components:

- 1 x Ranger600 Stunt RC Glider Airplane
- 2 x Lithium-Ion Batteries
- 1 x Battery Charger
- 1 x 2.4GHz Remote Control Transmitter
- 1 x User Manual (this document)

3. SAFETY GUIDELINES

Adhering to these safety guidelines is crucial for preventing injury and damage to the aircraft:

- **Flight Area:** Always operate the aircraft in open, clear areas, away from people, buildings, trees, and power lines.

- **Weather Conditions:** Avoid flying in strong winds, rain, or other adverse weather conditions.
- **Battery Safety:**
 - Use only the provided charger and batteries.
 - Do not overcharge or short-circuit batteries.
 - Store batteries in a cool, dry place, away from flammable materials.
 - Discontinue use if batteries show signs of damage or swelling.
- **Propeller Safety:** Keep hands and face clear of the propeller when the aircraft is powered on. The propeller is rear-mounted for enhanced safety, but caution is still advised.
- **Age Recommendation:** This product is recommended for users 14 years and up.
- **Line of Sight:** Maintain visual line of sight with the aircraft at all times during flight.

4. ASSEMBLY AND INITIAL SETUP

The Ranger600 Stunt RC Glider is largely pre-assembled, making it ready to fly quickly. Follow these steps for initial setup:

1. **Install Batteries:** Insert the charged Lithium-Ion battery into the aircraft's battery compartment. Ensure it is securely connected.
2. **Transmitter Batteries:** Install the required batteries (not included) into the remote control transmitter.
3. **Binding (if necessary):** If the aircraft and transmitter are not already bound, follow the specific binding instructions provided in a separate quick start guide or on the manufacturer's website.
4. **Pre-Flight Check:** Before each flight, ensure all control surfaces (ailerons, elevator, rudder) move freely and correctly in response to transmitter inputs. Check battery levels for both the aircraft and transmitter.

ONE KEY TAKE OFF

Press couple buttons and the aircraft takes off automatically to certain altitude.



Image 4.1 : Preparing the aircraft for a one-key take-off, demonstrating its compact and hand-launchable design.

5. OPERATING INSTRUCTIONS

The Ranger600 Stunt features an Xpilot gyro stabilizer system and multiple flight modes to assist pilots of all skill levels.

5.1. Xpilot Gyro Stabilizer System

The integrated Xpilot gyro stabilizer system provides flight assistance, making the aircraft stable and easier to control, especially for beginners. It automatically corrects for wind and maintains level flight.

XPILOT STABILIZER

No panic, just enjoy flying with XPILOT assist.



Image 5.1: Visual representation of the Xpilot gyro stabilizer system and its three distinct flight assist levels.

5.2. Flight Modes

The aircraft offers three selectable flight modes:

- **Beginner Mode (Full Assist):** Provides maximum stabilization and restricted control angles, ideal for first-time flyers.
- **Intermediate Mode (Half Assist):** Offers moderate stabilization with increased control authority, suitable for pilots gaining confidence.
- **Expert Mode (Manual Control):** Disables gyro assistance, providing full manual control for advanced maneuvers and experienced pilots.

5.3. One-Key Functions

- **One-Key Take-Off:** Press the designated button and hold the left stick (throttle) to initiate an automatic take-off to a certain altitude.
- **One-Key Aerobatics:** During flight, press the aerobatic button to perform pre-programmed stunts like rolls or flips.

- **One-Key U-Turn:** Activates an automatic U-turn maneuver, returning the aircraft in the opposite direction.



Image 5.2: The aircraft executing a one-key aerobatic maneuver, demonstrating its stunt capabilities.

ONE-KEY U-TURN

The glider plane return by the opposite direction that the airplane set up.



Image 5.3: The aircraft performing a one-key U-turn, simplifying directional changes during flight.

5.4. General Flight Operation

Use the remote control sticks to maneuver the aircraft. The left stick typically controls throttle and rudder, while the right stick controls ailerons and elevator. Practice in Beginner Mode until comfortable with basic controls before advancing to Intermediate or Expert modes.

2.4GHZ REMOTE CONTROL

More than one airplane to fly in the same area with less interference to each other.



Image 5.4: The 2.4GHz remote control system allows multiple aircraft to fly simultaneously with minimal interference.

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Video 5.1: Official product video demonstrating the VOLANTEXRC 4 Channel Remote Control Glider Airplane in flight, highlighting its features and ease of control.

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Video 5.2: Official product video showcasing the glider's flight characteristics and performance in various aerial maneuvers.

6. BATTERY CHARGING

The aircraft uses Lithium-Ion batteries. Follow these charging instructions:

- Connect the battery to the provided charger.
- Plug the charger into a suitable power source.
- Observe the indicator lights on the charger for charging status (refer to charger manual for specific light indications).
- Do not leave charging batteries unattended.

- A full charge typically provides up to 20 minutes of flight time per battery. The package includes two batteries for extended play.

7. MAINTENANCE

Proper maintenance ensures the longevity and performance of your RC glider:

- **Cleaning:** Wipe the aircraft with a soft, dry cloth after use to remove dirt or debris. Avoid using harsh chemicals.
- **Storage:** Store the aircraft and batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Inspection:** Regularly inspect the propeller, wings, and fuselage for any damage. The durable FLEEX foam construction is designed to withstand minor impacts.
- **Motor Care:** The high-performance motors are designed for durability. Keep them free from obstructions.



Image 7.1: Key design features of the Ranger600 Stunt, including its rear-mounted propeller for safety, 4-channel control, powerful motors, and flexible FLEEX foam construction.

8. TROUBLESHOOTING

If you encounter issues with your Ranger600 Stunt, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Aircraft does not respond to transmitter.	Low battery in aircraft or transmitter; not bound; out of range.	Charge batteries; re-bind aircraft and transmitter; ensure aircraft is within operating range.
Aircraft flies erratically or is unstable.	Strong winds; gyro not calibrated; damage to control surfaces.	Fly in calm conditions; re-calibrate gyro (refer to quick start guide); inspect and repair any damage.
Short flight time.	Battery not fully charged; aggressive flying style.	Ensure battery is fully charged; adopt a smoother flying style to conserve power.
Propeller not spinning.	Obstruction; motor damage; loose connection.	Check for and remove obstructions; inspect motor for damage; ensure battery connection is secure.

9. SPECIFICATIONS






Feature	Detail
Model Number	EXA76102
Product Dimensions	5.11 x 20.86 x 21.06 inches
Item Weight	1.85 pounds
Control Channels	4-Channel with Aileron
Stabilization System	Xpilot 6-Axis Gyro
Flight Modes	Beginner, Intermediate, Expert
Battery Type	Lithium Ion (2 included)
Approx. Flight Time	Up to 20 minutes per battery
Recommended Age	14 years and up
Material	Durable FLEEX Foam

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact VOLANTEXRC customer service directly. Refer to the product packaging or the official VOLANTEXRC website for contact details.

Manufacturer: EXHOBBY

Related Documents - EXA76102

 <p>RANGER 600S Stunt USER MANUAL</p>	<p>VolantexRC Ranger 600S Stunt RC Airplane User Manual</p> <p>Comprehensive user manual for the VolantexRC Ranger 600S Stunt RC Airplane, covering setup, operation, safety, and advanced features like X-PILOT and one-key functions. Includes detailed instructions for charging, binding, control surface calibration, and flight preparation.</p>
 <p>VOLANTE^{RC}</p> <p>6-AXIS GYRO EASY FLYING TRAINER USER MANUAL</p>	<p>VolantexRC Trainstar Mini User Manual - 6-Axis Gyro Easy Flying Trainer</p> <p>Comprehensive user manual for the VolantexRC Trainstar Mini, a 6-axis gyro assisted RC airplane designed for beginners. Includes safety, setup, charging, operation, and maintenance instructions.</p>
 <p>PHOENIX 2400</p> <p>Phoenix V2</p> <p>User Manual</p>	<p>Volantex Phoenix 2400 V2 User Manual</p> <p>Comprehensive user manual for the Volantex Phoenix 2400 V2 RC airplane, covering safety precautions, installation, flight checks, flying techniques, and charging instructions.</p>
 <p>VOLANTE^{RC}</p> <p>LEGEND WARBIRO SERIES USER MANUAL</p> <p>76111 V.07 2025</p>	<p>VolantexRC Legend Warbird Series 76111 User Manual - RC Airplane Guide</p> <p>Comprehensive user manual for the VolantexRC Legend Warbird Series RC airplane, model 76111. Includes setup, charging, safety, operation, troubleshooting, and maintenance instructions for this sophisticated hobby product.</p>
 <p>VOLANTE^{RC}</p> <p>LEGEND WARBIRO SERIES USER MANUAL</p> <p>76105 V.07 2025</p>	<p>VolantexRC Legend Warbird Series User Manual 76105</p> <p>Comprehensive user manual for the VolantexRC Legend Warbird Series RC aircraft (model 76105), detailing safety, setup, operation, charging, and maintenance for optimal flight.</p>



SPECIFICATION	
Model	PhoenixS 742-7
Wing	742mm (29.2in)
Span	742mm (29.2in)
Weight	2.1kg (4.6lb)
Length	1.8m (70.9in)

[VolantexRC PhoenixS 742-7 RC Airplane Instruction Manual](#)

Comprehensive guide to setting up, operating, and maintaining the VolantexRC PhoenixS 742-7 RC Glider, including safety precautions, charging instructions, and flight tips.