GoolRC XK A300

GoolRC WLtoys XK A300 RC Airplane User Manual

Comprehensive instructions for assembly, operation, and maintenance of your GoolRC WLtoys XK A300 RC Airplane.

1. SAFETY INFORMATION

Please read this manual thoroughly before operating the aircraft to ensure safe and proper use. Failure to follow instructions may result in damage or injury.

- Always operate the RC airplane in open areas, away from people, buildings, and obstacles.
- Do not fly in strong winds, rain, or other adverse weather conditions.
- Keep hands, face, and loose clothing away from the propeller when the motor is running.
- Ensure the battery is fully charged and securely installed before each flight.
- Supervise children during operation. Recommended age for operation is 16 years and up.
- Turn off the aircraft and remote control when not in use.

2. PACKAGE CONTENTS

Verify all components are present in the box:

- RC Airplane (WLtoys XK A300)
- Airplane Battery (7.4V 600mAh 25C Lithium Polymer)
- Remote Controller (2.4GHz)
- USB Charging Cable
- Screwdriver
- L Shape Wrench
- Wrench

Figure 2.1: All components included in the GoolRC WLtoys XK A300 RC Airplane package.

3. PRODUCT OVERVIEW

The GoolRC WLtoys XK A300 is a 4-channel brushless remote control airplane designed for both beginners and experienced pilots, featuring 3D/6G flight modes.

Figure 3.1: The GoolRC WLtoys XK A300 RC Airplane and its remote control.

Figure 3.2: High imitation real biplane design with powerful brushless motor and durable EPP engineering materials.

4. Setup and Assembly

Follow these steps to assemble your XK A300 RC Airplane:

1. Carefully unpack all components from the box.
2. Attach the wings to the fuselage. Ensure they are securely fastened.
3. Install the landing gear if not pre-installed. The landing gear is designed for both taxiing and takeoff.
4. Connect the propeller to the brushless motor.
5. Insert the fully charged 7.4V 600mAh 25C lithium polymer battery into the designated compartment.

5. Charging the Battery

The aircraft uses a 7.4V 600mAh 25C lithium polymer battery. Follow these charging instructions:

- Connect the airplane battery to the USB charging cable.
- Plug the USB charging cable into a suitable USB power source (e.g., computer USB port, USB wall adapter).

- The charging time is approximately 50 minutes.
- Do not leave the battery unattended during charging.
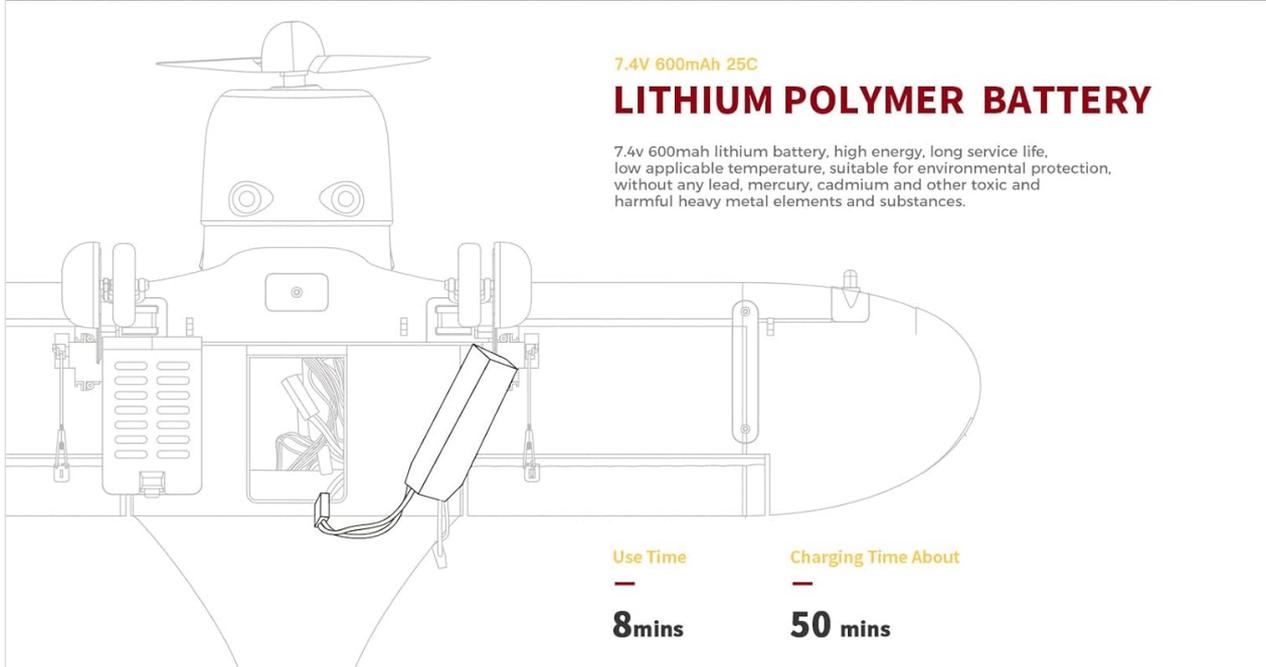- Disconnect the battery once charging is complete to prevent overcharging.

3D GYROSCOPE

After the plane flies horizontally in the air, the button switch switches 3D or advanced mode, and the plane enters 3D stunt mode or advanced mode (3D lock mode), both modes can easily make acrobatic actions such as somersaults and death spirals.

7.4V 600mAh 25C

LITHIUM POLYMER BATTERY

7.4v 600mah lithium battery, high energy, long service life, low applicable temperature, suitable for environmental protection, without any lead, mercury, cadmium and other toxic and harmful heavy metal elements and substances.

Use Time

8mins

Charging Time About

50 mins

Figure 5.1: Battery specifications and approximate charging time.

6. OPERATING THE AIRCRAFT

6.1 Remote Control Overview

The 2.4GHz remote control provides a precise and comfortable handling experience. Familiarize yourself with its functions:

Figure 6.1: The 2.4GHz remote control for the XK A300.

- **Power Indicator:** Shows remote control battery status.
- **Switch:** Power on/off for the remote control.
- **Throttle Trim Button:** Adjusts throttle neutral position.
- **Elevator Trim Button:** Adjusts elevator neutral position.
- **Throttle/Direction Joystick:** Controls throttle and yaw (rudder).
- **Lift/Aileron Stick:** Controls pitch (elevator) and roll (aileron).
- **Trim Button of Direction:** Adjusts rudder neutral position.
- **Aileron Trim:** Adjusts aileron neutral position.
- **Rudder Conversion (6G/Senior):** Switches between 6G (stabilized) and advanced modes.
- **Light Switch (6G/3D conversion):** Controls LED lights and switches between 6G and 3D modes.

6.2 3D/6G Mode Conversion

The aircraft features a 6-axis gyroscope for stability and allows conversion between 3D and 6G modes:

- **6G Level Flight Mode (Beginner Mode):** Default for takeoff. Gyroscope self-stabilizes, heading is locked. Ideal for beginners to practice fixed-wing flying.
- **3D Stunt Mode (Advanced Mode):** After the aircraft is flying horizontally, switch to 3D mode. This mode
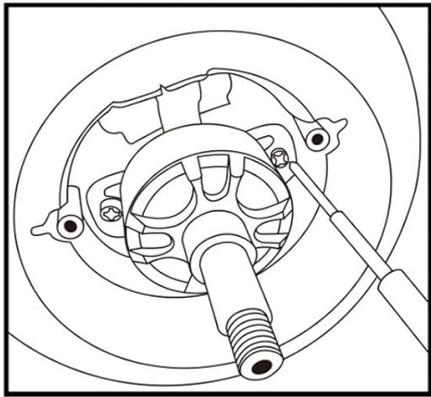
allows for advanced stunt actions such as somersaults and death spirals.

G-B RVC

6G
SELF-STABILIZING MODE

Takeoff default into 6G self-stabilizing mode,
gyroscope self-stabilizing, heading locked,
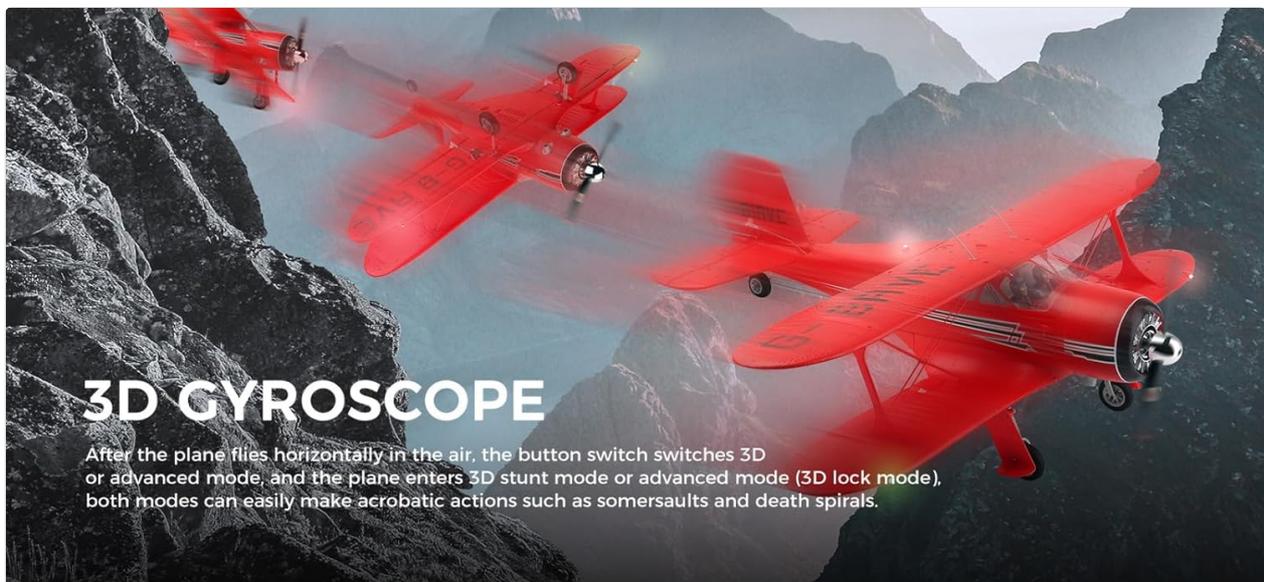very suitable for beginners fixed-wing mode practice flight.

Brushless Motor

Using 1806 strong magnetic brushless motor,
super strong power, 2G high precision digital steering gear,
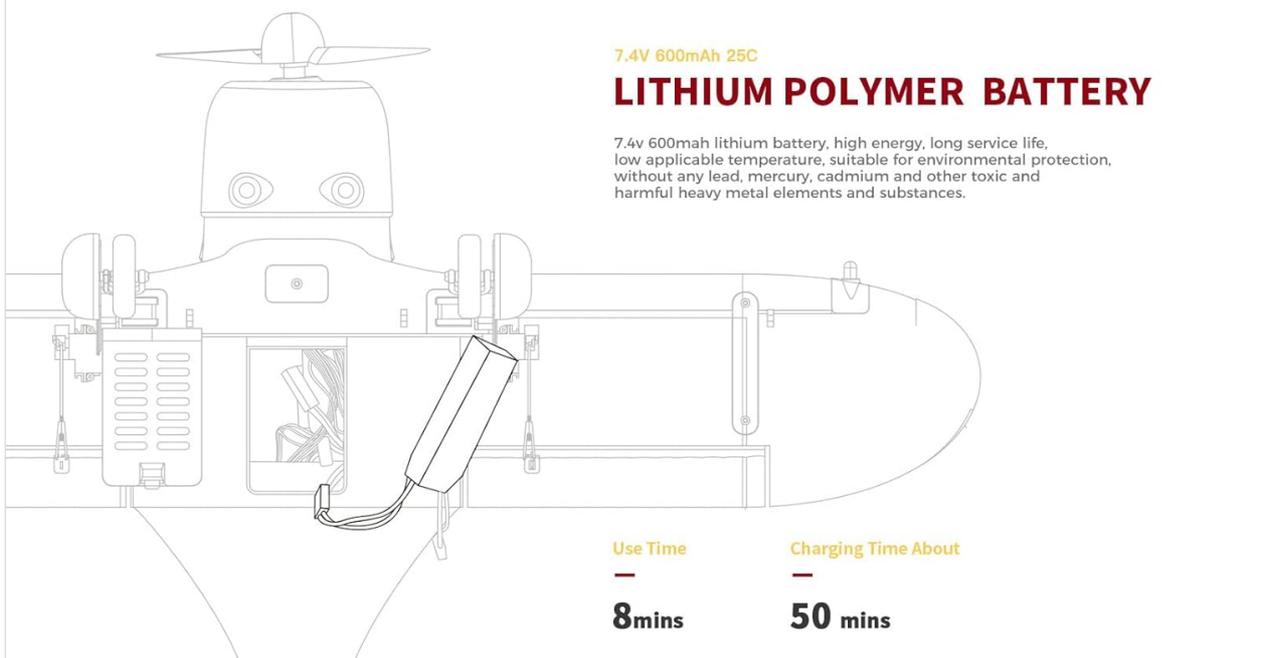quick response, fast locking.

Motor Type
—
1806

Remote Control Mode
—
2.4 GHz

Figure 6.2: The aircraft in 6G self-stabilizing mode, suitable for beginners.

Figure 6.3: The 3D gyroscope allows for acrobatic maneuvers in 3D lock mode.

6.3 Taking Off

The XK A300 supports two methods for takeoff:

- **Off the Ground Takeoff:** Select a flat, open surface. Push the throttle rocker forward to full power. The propeller will rotate at high speed, and the aircraft will gain height. Use the throttle rocker to control power and the direction rocker to control direction.
- **Throw Takeoff:** Push the throttle rocker forward. The propeller rotates at high speed. Incline the aircraft slightly upwards and throw it into the wind. After taking off, use the control joystick to manage flight altitude and direction.

OFF THE GROUND

Select a flat road surface, push forward the oil rocker of the aircraft directly against the wind to the maximum step by step. After the aircraft flies to a certain height in the sky, the propellant volume of the throttle rocker controls the power of the aircraft, and the direction rocker controls the direction of the aircraft.

WIND DIRECTION

XK-A300-BEECH D17S...

REMOTE CONTROL MODE	REMOTE CONTROL DISTANCE	FLIGHT TIME	WINGSPAN
2.4 GHz	150 M	8 min	550 mm

Figure 6.4: Illustration of ground takeoff for the XK A300.

WIND DIRECTION

THROWING ERROR METHOD

THE CORRECT METHOD OF THROWING

THROWING ERROR METHOD

Throw The Take Off

The throttle rocker is pushed forward,
the propeller rotates at high speed,
and the upwind is inclined to throw the aircraft.
After taking off, the control joystick
controls the flight altitude and direction.

Figure 6.5: Correct method for hand launching the XK A300.

6.4 Low Battery Alarm and Loss Prevention

The aircraft is equipped with features to prevent unexpected loss due to low battery:

- During flight, the system will provide a low battery alarm, allowing you to land safely before the battery is completely depleted.
- If the aircraft flies beyond the effective remote control distance, it will enter a hovering state. If no remote control input is received, the aircraft will maintain its current altitude and hover, gradually reducing its radius until it automatically lands before the battery runs out.

Figure 6.6: The low battery alarm system ensures safe landing.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your XK A300:

- **Cleaning:** Wipe the aircraft clean with a soft, dry cloth after each use. Avoid using water or harsh chemicals.
- **Propeller Inspection:** Regularly check the propeller for any damage (cracks, chips). Replace immediately if damaged to ensure safe flight. The blades can be disassembled for easy replacement.
- **Motor Care:** The 1806 strong magnetic brushless motor is durable, but avoid exposing it to excessive dust or moisture.
- **Battery Storage:** Store the lithium polymer battery in a cool, dry place, away from direct sunlight and extreme temperatures. Do not store fully charged or fully discharged for extended periods.
- **Structural Integrity:** Periodically inspect the EPP engineering materials for any signs of wear or damage.

8. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Aircraft does not respond to remote control.	Battery low on aircraft or remote; not properly bound; power switch off.	Charge batteries; re-bind remote control; ensure both are powered on.
Aircraft flies erratically or is difficult to control.	Incorrect trim settings; damaged propeller; strong wind conditions.	Adjust trim buttons; inspect and replace propeller if damaged; fly in calm conditions.
Short flight time.	Battery not fully charged; old battery; continuous high-throttle use.	Ensure full charge; consider replacing old battery; manage throttle usage.
LED lights not working.	Light switch off; wiring issue.	Toggle the light switch on the remote control; check connections.

9. SPECIFICATIONS

Key technical specifications for the GoolRC WLtoys XK A300 RC Airplane:

- **Model:** WLtoys XK A300
- **Motor:** 1806 Brushless Motor
- **Battery:** 7.4V 600mAh 25C Lithium Polymer
- **Remote Control Frequency:** 2.4GHz
- **Remote Control Distance:** Approximately 150 meters
- **Flight Time:** Approximately 8 minutes
- **Charging Time:** Approximately 50 minutes
- **Wingspan:** 550 mm
- **Dimensions (L x W x H):** 55 x 48.7 x 22 cm (21.65 x 19.17 x 8.66 inches)
- **Item Weight:** 1.75 pounds
- **Material:** EPP Engineering Materials
- **Gyroscope:** 6-axis gyroscope
- **Recommended Age:** 16 years and up

Product Information

Mode.
2.4GHz (Remote Control Distance is 150m)

Flight time.
About 8 min

Motor.
1806 Brushless Motor

Charging time.
About 50 min

Battery.
7.4V 600mAh 25c *1

Size.
55×48.7×22cm

Figure 9.1: Detailed product information including dimensions and flight parameters.

10. WARRANTY AND SUPPORT

For warranty claims, technical support, or replacement parts, please contact GoolRC customer service through the retailer where the product was purchased. Keep your purchase receipt as proof of purchase.

Visit the official GoolRC store for more products and support information:GoolRC Store on Amazon