

GoolRC A100

GoolRC WLtoys XK A100 RC Airplane Instruction Manual

3-Channel 2.4GHz Remote Control Fixed Wing Aircraft

1. INTRODUCTION

Thank you for purchasing the GoolRC WLtoys XK A100 RC Airplane. This manual provides essential information for the safe operation, assembly, and maintenance of your new remote control aircraft. Please read this manual thoroughly before operating the airplane to ensure proper function and to maximize your flying experience.



Image 1.1: The GoolRC WLtoys XK A100 RC Airplane and its remote control.

2. PRODUCT OVERVIEW

2.1 Key Features

- Functions: forward/backward, up/down, turn left/right, 3D flip, rudder volume size adjust.
- Designed according to SU-27 real plane, with cool white appearance.
- EPP composite material, high flexibility, excellent recovery, and not easy to break.
- 3CH easy operation, suitable for beginners and intermediate flight game players.
- Special USB charger can charge 2 batteries at a time.



DIY, Kit version



The maximum flying
height is 0 ~ 120 meters



3 channels (up, down,
forward, left, right)



Toy material EVA / foam
,easy to fly away



Flight time is
about 7 minutes



Charging time
is about 30 minutes

Image 2.1: Diagram illustrating features such as DIY kit version, 0-120m flying height, 3 channels, EVA foam material, 7-minute flight time, and 30-minute charging time.

2.2 Package Contents

The package includes the following items:

- 1 * Fixed Wing Airplane
- 1 * 3.7V 300mAh Lipo Battery
- 1 * Balance Charger with USB Line
- 1 * Pair of Propeller (CW&CCW)
- 1 * Set of Landing Gear



Image 2.2: All components included in the kit, such as the airplane body, remote control, battery, charger, propellers, landing gear, and decals.

3. SETUP

3.1 Battery Charging

Before first use, fully charge the provided 3.7V 300mAh Lipo battery. Connect the battery to the balance charger, then plug the USB line into a suitable USB power source (e.g., computer USB port, USB wall adapter). The special USB charger allows for charging two batteries simultaneously. Charging time is approximately 30 minutes per battery.

3.2 Assembly

The GoolRC WLtoys XK A100 RC Airplane requires minimal assembly. Attach the tail wings and landing gear as shown in the diagrams. Ensure all connections are secure before flight.



Image 3.1: Detailed views of the powerful motor, tail wing, EPP foam construction, and landing gear components.

3.3 Controller Pairing

1. Ensure the airplane's battery is connected and the airplane is powered on.
2. Power on the remote control.
3. The remote control and airplane should automatically pair. If not, refer to the specific pairing instructions in the quick start guide included in your package.

4. OPERATING INSTRUCTIONS

4.1 Basic Controls

The GoolRC WLtoys XK A100 is a 3-channel RC airplane, offering control over:

- **Throttle:** Controls forward/backward movement (speed).
- **Elevator:** Controls up/down movement (pitch).
- **Rudder:** Controls left/right turning (yaw).

The remote control operates on a 2.4GHz frequency, providing a stable connection up to approximately 200

meters.



Image 4.1: The remote control distance for the GoolRC A100 RC Airplane is approximately 200 meters using 2.4GHz technology.

4.2 Flight Modes

The airplane supports two primary take-off methods:

1. **Ground Take-off:** Select a runway approximately 5-10 meters long. Position the airplane facing into the wind. Gradually push the throttle to maximum. The aircraft will taxi and take off automatically. If the plane moves sideways during taxiing, adjust the remote control slightly left or right to correct its direction.
2. **Handthrow Take-off:** Hold the middle part of the fuselage in your hand. Push the throttle to full and gently throw the airplane into the air, tilting it slightly (5-15 degrees) into the headwind.

TWO FLIGHT MODES

Mode 1: the ground takes off

Select a runway that is about 5-10 meters long, **reverse the wind**, push the throttle to the maximum step by step, the aircraft taxi section After the distance will take off automatically. If the plane is going sideways while taxiing on the ground, adjust the remote control slightly left or right, straight line to taxi direction.



Mode 2: handthrow takes off

Hold the middle part of the fuselage in your hand, push the throttle and throw the headwind into the air in parallel Tilt the plane.



Image 4.2: Visual guide for ground take-off and handthrow take-off techniques, including correct and incorrect handthrow angles.

4.3 Rudder Settings

The transmitter is equipped with a rudder volume setting. This allows you to adjust the sensitivity of the controls:

- **Small Rudder:** Suitable for beginners, providing more stable and less sensitive control for easier learning.
- **Big Rudder:** Increases control sensitivity, making it easier to perform rolls, spirals, and other advanced maneuvers.



Small and big rudder setting

The transmitter is equipped with rudder volume setting, small rudder is suitable for beginners, big rudder makes easy to roll, spiral and do other actions.

Image 4.3: Explanation of how small and big rudder settings affect flight control, with small rudder for beginners and big rudder for advanced actions.

5. MAINTENANCE

- **Cleaning:** Wipe the airplane body with a soft, dry cloth after each flight to remove dirt or debris. Avoid using water or chemical cleaners.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately to ensure safe and efficient flight.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge the Lipo battery. Disconnect the battery from the airplane when not in use.
- **Storage:** Store the airplane in a safe place away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

- **Airplane does not respond to controls:**
 - Check if the airplane and remote control are powered on.
 - Ensure batteries in both the airplane and remote control are fully charged.
 - Re-pair the remote control with the airplane.

- **Airplane does not take off or flies erratically:**
 - Check for any damage to propellers or wings.
 - Ensure the landing gear is properly attached (if using ground take-off).
 - Verify rudder settings are appropriate for your skill level (small rudder for stability).
 - Ensure you are taking off into the wind.
- **Motor not working:**
 - Check battery connection.
 - Inspect motor for visible damage or obstructions. If a motor fails after several flights, it may require replacement.
- **Short flight time:**
 - Ensure the battery is fully charged before each flight.
 - Battery performance can degrade over time; consider replacing old batteries.

7. SPECIFICATIONS

Feature	Detail
Model Number	A100
Brand	GoolRC
Channels	3 Channel
Frequency	2.4GHz
Material	EPP Composite Material
Item Weight	1.57 pounds (approx. 712g)
Flying Weight	65g
Package Dimensions	16.93 x 13.46 x 4.41 inches
Manufacturer Recommended Age	16 years and up



Image 7.1: The dimensions of the GoolRC A100 RC Airplane are 420mm length, 340mm wingspan, 105mm height, with a flying weight of 65g.

8. SAFETY INFORMATION

- Always operate the RC airplane in open areas, away from people, animals, buildings, and power lines.
- Do not fly in strong winds or adverse weather conditions.
- Keep fingers and loose clothing away from propellers when the airplane is powered on.
- Ensure the battery is properly installed and secured before flight.
- Never leave charging batteries unattended.
- This product is recommended for users 16 years and up. Adult supervision is advised for younger users.

9. WARRANTY AND SUPPORT

For any questions, technical support, or warranty inquiries regarding your GoolRC WLtoys XK A100 RC Airplane, please contact GoolRC customer service through the retailer where the product was purchased or visit the official GoolRC website for support information.

