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## GoolRC LS-XT6

# GoolRC LS-XT6 RC Drone User Manual

Model: LS-XT6 | Brand: GoolRC

## INTRODUCTION

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This user manual provides comprehensive instructions for the safe operation, setup, and maintenance of your GoolRC LS-XT6 RC Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury. The GoolRC LS-XT6 is a compact and versatile RC quadcopter featuring a 4K dual camera system, track flight capabilities, gravity sensor control, gesture photo/video functions, altitude hold, and headless mode. It is designed for both adults and kids aged 14 and above.

## PACKAGE CONTENTS

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Before you begin, please verify that all items listed below are included in your package:

- 1 x RC Aircraft (LS-XT6 Drone)
- 1 x Remote Controller
- 1 x Drone Charging Cable
- 1 x User Manual (this document)
- 2 x Spare Propellers
- 4 x Propeller Guards
- 1 x Screwdriver
- 3 x Drone Batteries (500mAh, 3.7V Lithium)
- 1 x Storage Bag



Image: Contents of the GoolRC LS-XT6 drone package, including the drone, remote controller, three batteries, and a storage bag.

## PRODUCT OVERVIEW

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The GoolRC LS-XT6 drone is designed for portability and ease of use. Its foldable design makes it convenient for transport.

# FOLD

## CLEVERLY FOLDED MINI SIZE

Travel customization



Image: The GoorRC LS-XT6 drone shown in its cleverly folded mini size, highlighting its portability.

### Key Features:

- **4K Dual Cameras:** Capture high-definition photos and videos with both front and bottom cameras. The front camera has a 180° manually adjustable angle.
- **Foldable Design:** Compact and easy to carry.
- **Altitude Hold:** Maintains a stable flight height.
- **Headless Mode:** Simplifies control by eliminating the need to adjust the drone's position before flight.
- **One Key Take-off/Landing/Return:** Automated functions for ease of use.
- **Gravity Control:** Control the drone by tilting your smartphone.
- **Gesture Photo/Video:** Initiate photo or video recording with simple hand gestures.
- **Track Flight:** Draw a flight path on the app screen, and the drone will follow it automatically.
- **3D Flip:** Perform aerial stunts with a single button.



Image: Close-up view of the GoolRC LS-XT6 drone's 4K dual cameras, emphasizing the 180° manually adjustable angle.

## SETUP GUIDE

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### 1. Charging the Drone Battery

The drone comes with 3 lithium batteries. Each battery has a capacity of 500mAh and a voltage of 3.7V. Use the provided drone charging cable to charge the batteries. A full charge takes approximately 60 minutes.

- Connect the charging cable to the drone battery.
- Connect the other end of the charging cable to a USB power source (e.g., computer USB port, USB wall adapter).
- The indicator light on the charging cable will show the charging status. Refer to the specific light indications in the quick start guide for details.
- **Important:** Do not over-charge, or over-discharge the battery. Always supervise charging.

### 2. Installing Drone Batteries

The drone uses modular batteries for easy installation and removal.

- Ensure the drone is powered off.
- Align the battery with the battery compartment on the drone.
- Gently push the battery into the compartment until it clicks securely into place.
- To remove, press the release button (if present) and slide the battery out.

Your browser does not support the video tag.

Video: This video demonstrates the modular battery installation and removal process for the GoolRC LS-XT6 drone, along with other key features and flight demonstrations.

### 3. Installing Remote Controller Batteries

The remote controller requires 3 x 1.5V AAA batteries (not included).

- Open the battery compartment on the back of the remote controller.
- Insert 3 AAA batteries, ensuring correct polarity (+/-).
- Close the battery compartment securely.

### 4. Propeller and Guard Installation

Attach the propeller guards before flight to protect the propellers and for safer operation, especially for beginners.

- Identify the correct propeller guards for each arm.
- Snap or screw the guards into place as indicated in the quick start guide.
- Ensure all propellers are securely attached and free from damage. Use the spare propellers if needed.

### 5. Mobile Device System Compatibility

To use the drone's advanced features and real-time image transmission, you will need to install the companion app on your mobile device. The app is compatible with:

- iOS 7.0 or later
- Android 7.0 or later

# APPLICABLE MOBILE PHONE SYSTEM

IOS 7.0 OR LATER/ANDROID 7.0 OR LATER

IOS 7.0 OR LATER



ANDROID 7.0 OR LATER



Image: Illustration showing compatibility with iOS 7.0 or later and Android 7.0 or later for the drone's mobile application.

## OPERATING INSTRUCTIONS

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### 1. Powering On/Off

- **To Power On:** Place the drone on a flat surface. Press and hold the power button on the drone until the indicator lights turn on. Power on the remote controller.
- **To Power Off:** Power off the remote controller first, then press and hold the power button on the drone until the lights turn off.

### 2. Pairing the Drone with Remote Controller

- Ensure both the drone and remote controller are powered on.

- Push the left joystick (throttle) up to the highest position, then pull it down to the lowest position. The drone's lights will stop flashing and become solid, indicating successful pairing.

### 3. One Key Take-off and Landing

- After pairing, press the One Key Take-off button (usually indicated by an arrow pointing up) on the remote controller. The drone will automatically ascend to a stable altitude.
- To land, press the One Key Landing button (usually indicated by an arrow pointing down). The drone will slowly descend and land.

### 4. Basic Flight Controls

Familiarize yourself with the remote controller's joysticks and buttons:

- **Left Joystick (Throttle/Yaw):**
  - Up/Down: Controls altitude (throttle).
  - Left/Right: Controls rotation (yaw).
- **Right Joystick (Forward/Backward/Sideward):**
  - Up/Down: Controls forward/backward movement.
  - Left/Right: Controls sideward movement (strafe).

### 5. Advanced Flight Modes and Features

- **Altitude Hold:** The drone automatically maintains its current altitude, allowing for stable hovering.
- **Headless Mode:** Activate this mode to make the drone's forward direction relative to the pilot, regardless of the drone's actual orientation. This simplifies control for beginners.
- **3D Flip:** Press the 3D Flip button and then move the right joystick in any direction to perform a 360-degree roll.
- **Gravity Control:** (Via App) Tilt your smartphone to control the drone's movement.
- **Track Flight:** (Via App) Draw a desired flight path on your mobile device screen, and the drone will follow the specified route.
- **Gesture Photo/Video:** (Via App) Use specific hand gestures in front of the camera to trigger photo or video recording.

# GESTURE INTERACTION

Take a picture of the camera and take video by posing simple gestures, which achieves great convenience with simple hand motions in photography.

## GESTURE VIDEO



Image: Examples of hand gestures for initiating photo and video recording with the drone's camera.

- **Real-time WiFi Image Transmission:** Connect your mobile device to the drone's Wi-Fi network to view live video feed and capture aerial photos/videos directly on your phone.

# REAL-TIME WIFI IMAGE TRANSMISSION

Built-in Wifi module, you can watch what your camera sees with a live video and aerial photos in real time on your mobile device via the App.



Image: A user viewing real-time video feed from the drone on a smartphone connected to the remote controller.

- **Adjustable Camera:** The front camera can be manually adjusted by 180 degrees to capture different angles.

# DUAL CAMERA SWITCH GET RID OF FIXED ANGLE OF VIEW

Expand the shooting range and capture more wonderful videos



Image: Visual representation of the dual camera switch and the ability to expand shooting range by adjusting the camera angle.

## MAINTENANCE

### 1. Battery Care

- Always use the original charging cable.
- Do not over-charge or over-discharge the batteries.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If the drone will not be used for an extended period, charge the batteries to about 50% before storage.

### 2. Propeller Inspection and Replacement

- Regularly inspect propellers for any cracks, bends, or damage.
- Damaged propellers can affect flight stability and safety. Replace them immediately using the provided spare propellers and screwdriver.
- Ensure propellers are installed correctly (A and B types match the drone arms).

### 3. Cleaning the Drone

- Use a soft, dry cloth to clean the drone's body.
- Avoid using water or chemical cleaners, as they can damage electronic components.
- Gently clean the camera lens with a microfiber cloth to ensure clear image quality.

#### 4. Storage

- When not in use, store the drone in its portable storage bag to protect it from dust and physical damage.
- Keep the drone and accessories out of reach of small children.

### TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not installed correctly.	Ensure drone battery is fully charged and securely inserted.
Remote controller does not power on.	AAA batteries are dead or installed incorrectly.	Replace AAA batteries, ensuring correct polarity.
Drone cannot be paired.	Incorrect pairing procedure.	Ensure drone and remote are powered on, then perform the joystick calibration (up then down).
Drone drifts during flight.	Calibration issue or uneven surface at takeoff.	Place the drone on a flat, level surface before powering on and calibrating. Recalibrate if drift persists.
Poor image/video quality or no live feed.	Weak Wi-Fi signal, app not connected, or dirty camera lens.	Ensure strong Wi-Fi connection to the drone. Reconnect the app. Clean the camera lens. Stay within the 30m image transmission distance.
Short flight time.	Battery not fully charged or battery degradation.	Ensure batteries are fully charged (approx. 60 mins). Consider replacing old batteries if performance significantly degrades.

### SPECIFICATIONS

#### Aircraft (LS-XT6)

- **Main Material:** Plastics & Electronic Material
- **Color:** Black
- **Size (unfolding):** 17.5 \* 14 \* 4.2cm (6.9 \* 5.5 \* 1.7in)
- **Size (folding):** 8.5 \* 5.3 \* 4.2cm (3.3 \* 2.1 \* 1.7in)
- **Max. Service Flight Distance:** 100m
- **Max. Flight Time:** 12mins
- **Item Weight:** 11.7 ounces

#### Camera

- **Photo Resolution:** 4096\*2160 (4K)
- **Video Resolution:** 1080\*1920
- **Max. Image Transmission Distance:** 30m
- **Camera Manually Adjustable Angle:** 180°
- **Optical Sensor Technology:** CMOS

#### Bottom Camera

- **Photo Resolution:** 4096\*2160 (4K)
- **Video Resolution:** 1080\*1920

## Intelligent Flight Battery

- **Capacity:** 500mAh
- **Voltage:** 3.7V
- **Battery Type:** Lithium
- **Charging Time:** About 60mins

## Remote Controller Battery

- **Operating Frequency:** 2.4GHz
- **Battery:** 3 \* 1.5V AAA Battery (not included)

## General

- **Recommended Age:** 14+ years
- **Connectivity Technology:** Wi-Fi
- **Control Type:** Remote Control, App Control

## SAFETY GUIDELINES

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Adhering to these safety guidelines is crucial for safe and enjoyable drone operation:

- **Age Requirement:** This product is recommended for users aged 14 and above.
- **Flight Environment:**
  - Fly in open areas, away from people, animals, buildings, and obstacles.
  - Do not fly near airports or restricted airspace.
  - Avoid flying in strong winds or adverse weather conditions.
  - Maintain visual line of sight with the drone at all times.
- **Battery Safety:**
  - Use only the provided charging cable and recommended power sources.
  - Never leave charging batteries unattended.
  - Do not puncture, disassemble, or expose batteries to extreme heat or fire.
  - If a battery appears swollen or damaged, discontinue use immediately.
- **Propeller Safety:**
  - Keep fingers, hair, and loose clothing away from rotating propellers.
  - Always install propeller guards for added safety, especially during initial flights.
- **Responsible Operation:**
  - Do not operate the drone under the influence of alcohol or drugs.
  - Respect privacy when using the camera features.
  - Be aware of local regulations regarding drone operation.

## WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the official GoolRC website or contact their

customer support directly. Keep your purchase receipt as proof of purchase for warranty claims.  
Visit the official GoolRC Store for more information: [GoolRC Store](#)

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