GoolRC LS-XT6

GoolRC LS-XT6 4K Dual Camera RC Drone

INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the safe and effective operation of your GoolRC LS-XT6 RC Quadcopter. Please read this manual thoroughly before operating the drone and retain it for future reference. The LS-XT6 is a portable and compact drone designed for ease of use, featuring a 4K dual camera, track flight, gravity sensor, gesture photo/video, altitude hold, and headless mode.



Image 1.1: The GoolRC LS-XT6 RC Drone with its remote controller and a smartphone for live view.

2. What's in the Box

Verify that all components are present in your package:

- 1 x RC Aircraft (GoolRC 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 Lithium)

3. Product Overview

3.1 Folding Design

The LS-XT6 features a foldable design for enhanced portability. The arms can be folded inward, making the

drone compact for storage and transport.



Image 3.1: The drone's dimensions in both folded (8.5 x 5.3 x 4.2 cm) and unfolded (17.5 x 14 x 4.2 cm) configurations.

3.2 4K Dual Camera System

The drone is equipped with dual 4K cameras, allowing for high-definition photo and video capture. The camera angle can be manually adjusted by 180 degrees to capture various perspectives.



Image 3.2: Illustration of the drone's dual 4K cameras and their 180-degree manual adjustment capability.

3.3 Modular Battery

The LS-XT6 utilizes a modular battery design for easy installation and removal. Each 500mAh, 3.7V Lithium battery provides approximately 12 minutes of flight time.



Image 3.3: The modular battery design allows for convenient insertion and removal from the drone.

4. Setup

4.1 Unfolding the Drone

1. Gently unfold the drone arms until they lock into position.
2. Ensure all propellers are clear and unobstructed.

4.2 Battery Installation and Charging

1. Insert a fully charged drone battery into the designated slot on the drone until it clicks securely.
2. To charge the drone battery, connect it to the drone charging cable and plug the cable into a suitable USB power source. Charging time is approximately 60 minutes.
3. **Important:** Do not over-charge or over-discharge the battery to prolong its lifespan.

4.3 Remote Controller Setup

1. Install 3 x 1.5V AAA batteries (not included) into the remote controller.
2. Attach your smartphone to the remote controller's phone holder for FPV (First Person View) and advanced control features via the companion app.



Image 4.1: The drone, remote controller, and a smartphone connected for operation.

4.4 Pairing the Drone and Remote Controller

1. Power on the drone and then the remote controller.
2. The drone's indicator lights will flash. Move the left joystick up and then down to complete the pairing process.
3. Once paired, the drone's lights will stop flashing, indicating a successful connection.

4.5 App Installation (Optional for Advanced Features)

Download the official GoolRC drone application from your smartphone's app store. This app enables features such as live video feed, gesture controls, and trajectory flight.

5. Operating Instructions

5.1 Basic Flight Controls

- **Up/Down:** Use the left joystick to control altitude.
- **Forward/Backward:** Use the right joystick to move the drone forward or backward.
- **Turn Left/Right:** Use the left joystick to rotate the drone left or right.

- **Sideward Flight:** Use the right joystick to move the drone left or right sideways.
- **Speed Control:** Adjust flight speed using the dedicated speed button on the remote controller.

5.2 One Key Take-off/Landing/Return

After successful pairing, press the one-key take-off button on the remote controller to automatically launch the drone. Press it again for automatic landing. The one-key return function will bring the drone back to its take-off point.

5.3 Altitude Hold

The drone features an altitude hold function, allowing it to maintain a stable height automatically, simplifying control for beginners.

5.4 Headless Mode

Activate headless mode to eliminate the need to distinguish the drone's front or rear orientation. The drone will move relative to the remote controller's orientation, making it easier to control.

5.5 3D Flip

With advanced 6-axis gyroscope technology, the drone can perform a stable 3D flip with a single button press. Ensure sufficient altitude and clear surroundings before attempting this maneuver.



Image 5.1: The drone executing a 3D flip, demonstrating its acrobatic capability.

6. Advanced Features

6.1 Gesture Photo/Video

Utilize specific hand gestures while the drone is in flight to trigger photo or video recording. Refer to the app's instructions for detailed gesture commands.

6.2 Trajectory Flight

Draw a desired flight path on your smartphone screen within the app, and the drone will automatically follow the specified trajectory.

6.3 Adjustable Camera

The drone's camera can be manually adjusted to capture different angles during flight. For live adjustment and advanced camera settings, use the companion app.

6.4 Product Feature Video

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Video 6.1: This video demonstrates key features of the GoolRC LS-XT6 drone, including its foldable design, one-key take-off, gravity sensor control, gesture photo/video, air pressure altitude hold, 360-degree roll, modular battery installation, portability, HD video transmission, adjustable camera, trajectory flight, and one-click return function.

7. Maintenance

7.1 Battery Care

- Always use the provided charging cable.
- Do not over-charge or over-discharge the drone 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 approximately 50% before storage.

7.2 Cleaning

Use a soft, dry cloth to clean the drone body and camera lenses. Avoid using harsh chemicals or solvents.

7.3 Propeller Replacement

If propellers are damaged, replace them with the provided spare propellers using the screwdriver. Ensure propellers are installed correctly according to their markings (A or B).

8. Troubleshooting

- **Drone does not take off:** Ensure the drone and remote controller are properly paired. The drone's indicator lights should stop flashing after pairing. Press the one-key takeoff button after pairing.
- **Difficulty with app usage:** Refer to the in-app instructions or the official GoolRC support resources for guidance on specific app features. Ensure your smartphone meets the app's system requirements.
- **Short flight time:** Ensure batteries are fully charged before each flight. Flight time can be affected by wind conditions, aggressive flying, and payload. Consider having extra charged batteries.
- **Unstable flight:** Perform a gyroscope calibration if the drone exhibits unstable flight. Refer to the remote controller or app instructions for calibration steps. Check for damaged propellers and replace if necessary.

- **No camera feed:** Ensure the drone is connected to the app and the camera is properly functioning. Check app permissions for camera access on your smartphone.

9. Specifications

Feature	Specification
Item No.	LS-XT6
Main Material	Plastics & Electronic Material
Color	Black
Unfolding Size	17.5 * 14 * 4.2 cm (6.9 * 5.5 * 1.7 in)
Folding Size	8.5 * 5.3 * 4.2 cm (3.3 * 2.1 * 1.7 in)
Max. Service Flight Distance	100 m
Max. Flight Time	12 mins
Battery Capacity	500 mAh
Battery Voltage	3.7 V
Battery Type	Lithium
Charging Time	About 60 mins
Remote Controller Operating Frequency	2.4 GHz
Remote Controller Battery	3 * 1.5V AAA Battery (not included)
Video Capture Resolution	4K
Recommended Age	14+ years

10. Safety Guidelines

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.
- Do not fly near airports, restricted airspace, or in adverse weather conditions (strong winds, rain).
- Maintain visual line of sight with the drone at all times.
- Ensure all propellers are securely attached and undamaged before each flight.
- Keep fingers and loose clothing away from rotating propellers.
- Supervise children when they are operating the drone.
- Adhere to local regulations and laws regarding drone operation.

11. Warranty and Support

For warranty information, please refer to the purchase documentation or contact GoolRC customer support directly. If you encounter any issues not covered in this manual, please reach out to GoolRC customer service for assistance.

- **GoolRC Store:** Visit GoolRC Store on Amazon