GoolRC LS-MIN

GoolRC LS-MIN Mini Drone User Manual

Model: LS-MIN | Brand: GoolRC

1. INTRODUCTION

This manual provides essential instructions for the safe operation and maintenance of your GoolRC LS-MIN Mini Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury. The GoolRC LS-MIN is a compact RC quadcopter equipped with a 1080P camera, designed for both beginners and experienced users, featuring functions like altitude hold, headless mode, gesture control, and track flight.

2. SAFETY GUIDELINES

- **Observe Local Regulations:** Always fly your drone in accordance with local laws and regulations.
- **Maintain Visual Line of Sight:** Keep the drone within your visual line of sight at all times during flight.
- **Avoid Obstacles and People:** Do not fly near crowds, buildings, trees, or power lines.
- **Weather Conditions:** Avoid flying in strong winds, rain, or other adverse weather conditions.
- **Battery Safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers.
- **Age Recommendation:** This product is recommended for users aged 14 years and up.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- GoolRC LS-MIN Mini Drone
- Remote Controller
- USB Charging Cable
- Backup Propellers (4 pieces)
- Propeller Protection Frames (4 pieces)

- Screwdriver
- Drone Batteries (3 pieces)
- Carry Bag
- User Manual (this document)
- App Manual
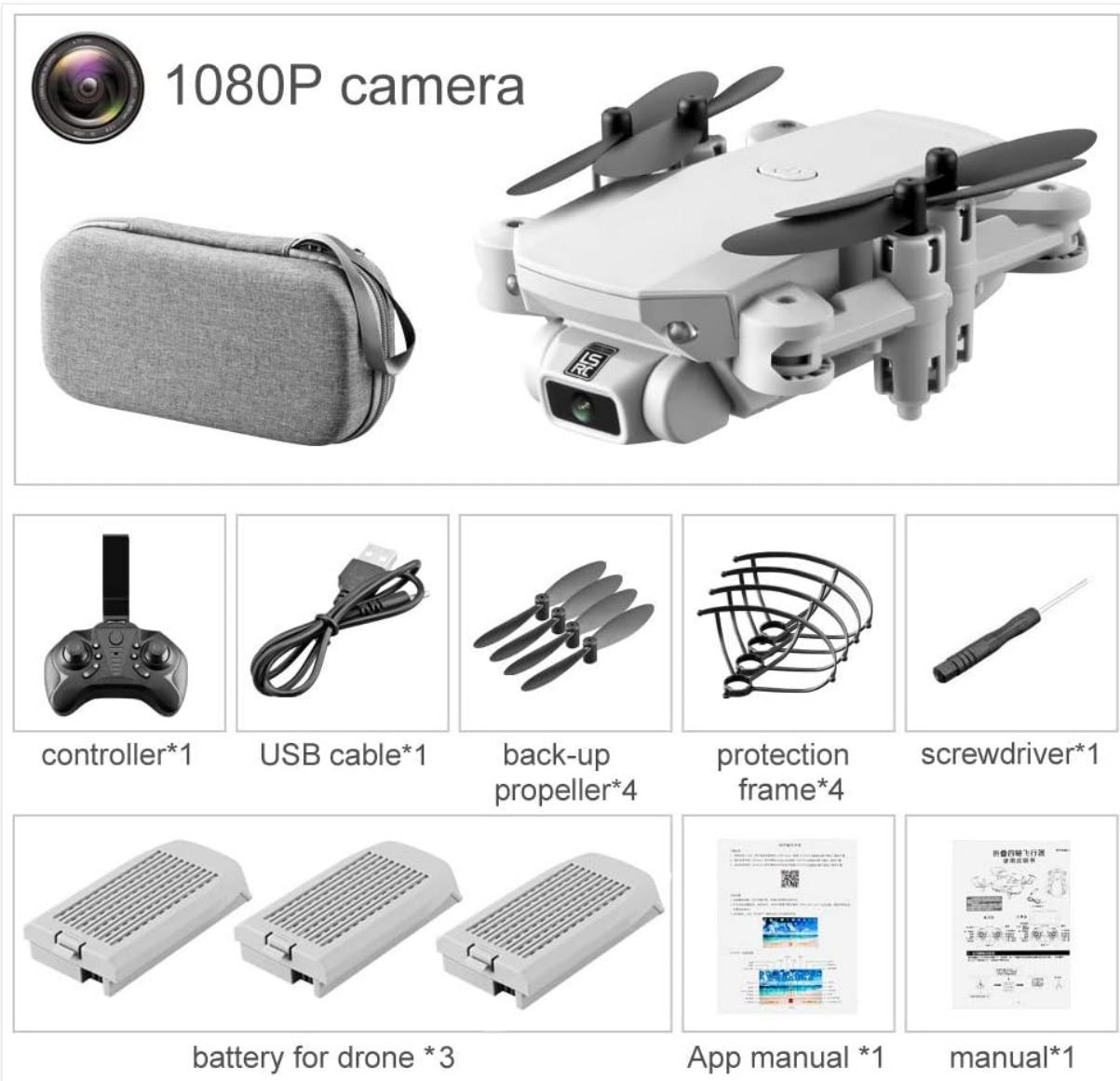
Image: Contents of the GoolRC LS-MIN Mini Drone package, including the drone, remote controller, three batteries, USB cable, backup propellers, protection frames, screwdriver, and manuals.

4. COMPONENT IDENTIFICATION

Familiarize yourself with the main components of your GoolRC LS-MIN Mini Drone and its remote controller.

4.1 Drone Components

- **Propellers:** Four rotating blades for lift and movement.
- **Motors:** Drive the propellers.
- **Camera:** Front-facing 1080P camera for photo and video capture.
- **LED Lights:** Indicate drone status and orientation.
- **Battery Compartment:** Houses the drone's rechargeable battery.
- **Power Button:** To turn the drone on/off.

4.2 Remote Controller Components

- **Left Joystick:** Controls altitude (up/down) and rotation (left/right).

- **Right Joystick:** Controls forward/backward and sideward flight.

- **One-Key Takeoff/Landing Button:** Initiates automatic takeoff or landing.

- **One-Key Return Button:** Commands the drone to return to its takeoff point.

- **Headless Mode Button:** Activates/deactivates headless flight mode.

- **Speed Switch Button:** Adjusts flight speed (e.g., low, medium, high).

- **Phone Holder:** Secures your smartphone for FPV viewing and app control.

Image: The GoolRC LS-MIN Mini Drone, its remote controller with a smartphone mounted, illustrating the primary control setup.

5. Setup

5.1 Battery Charging and Installation

1. **Charge Drone Batteries:** Connect the drone batteries to the USB charging cable and plug it into a suitable USB power source (e.g., computer, USB adapter). The indicator light will show charging status and turn off when fully charged.

2. **Install Drone Battery:** Insert a fully charged battery into the drone's battery compartment until it clicks securely

into place.

3. **Install Controller Batteries:** Open the battery compartment on the remote controller and insert the required batteries (not included, typically AA or AAA) according to polarity markings. Close the compartment.

5.2 Propeller and Protection Frame Installation

Attach the propeller protection frames to the drone's motor arms. Ensure they are securely fastened. Then, attach the propellers, matching the 'A' and 'B' markings on the propellers to the corresponding motor shafts. Use the provided screwdriver if necessary.

5.3 App Installation and Wi-Fi Connection

1. **Download App:** Scan the QR code in the App Manual or search for "Mini App" (or specified app name) on the Google Play Store or Apple App Store. Install the application on your smartphone.

2. **Power On Drone:** Press and hold the power button on the drone until the LED lights illuminate.

3. **Connect Wi-Fi:** On your smartphone, go to Wi-Fi settings and connect to the network named "GoolRC-LS-MIN-XXXX" (or similar, specific to your drone).

4. **Launch App:** Open the installed drone application. You should see the live camera feed from the drone.
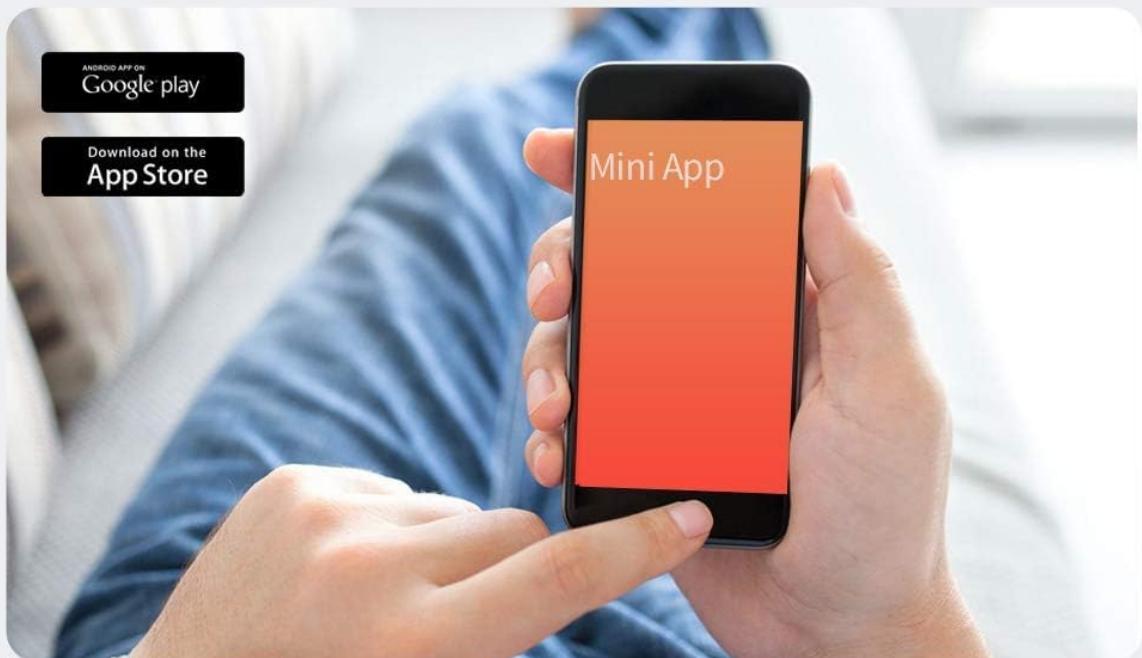

Image: A smartphone screen showing the drone control application, with icons for Google Play and the App Store, indicating where to download the app.

6. OPERATION

6.1 Pre-Flight Checklist

- Ensure drone and controller batteries are fully charged.

- Check that propellers and protection frames are securely installed.

- Verify Wi-Fi connection between drone and smartphone (if using FPV).

- Choose an open, clear area for flight, away from obstacles and people.

6.2 Pairing the Drone and Controller

1. Turn on the drone.

2. Turn on the remote controller.

3. Push the left joystick up once, then pull it down once. The drone's indicator lights will stop flashing and remain solid, indicating successful pairing.

6.3 Basic Flight Controls

- **One-Key Takeoff:** Press the One-Key Takeoff/Landing button. The drone will automatically ascend and hover at a stable altitude.

- **Altitude Hold Mode:** The drone automatically maintains its current altitude, allowing for stable hovering. This function is enabled by default.

- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. Press again to exit.

- **3D Flip:** While flying, press the 3D Flip button and then move the right joystick in the desired direction to perform a flip.

- **One-Key Landing:** Press the One-Key Takeoff/Landing button again. The drone will automatically descend and land.

- **One-Key Return:** Press the One-Key Return button. The drone will attempt to return to its takeoff position. Ensure a clear path.

MULTIPLE FUNCTIONS

ONE KEY TO TAKE OFF/LAND

ONE KEY TO RETURN

GRAVITY SENSOR

360° ROLLING

Image: Visual representation of the drone's multiple functions, including one-key takeoff/landing, one-key return, gravity sensor control, and 360-degree rolling maneuvers.

AIR PRESSURE ALTITUDE HOLD

Air pressure fixed altitude hover can accurately lock the flight altitude and position, and make it in a stable hover, effectively prevent the aerial camera shake screen and make the photo blur, at the same time, let the new player more easily control the flight.

photo is more clear

Intelligent stable hover

Image: Illustration of the Air Pressure Altitude Hold feature, showing the drone maintaining a stable hover, resulting in clearer photos.

6.4 Camera Operation and Special Features

- **1080P HD Camera:** The integrated camera captures high-definition photos and videos. Access the camera feed and controls via the smartphone app.

- **Beauty Filter:** The app includes various beauty filters to enhance your photos.

- **Gesture Photo/Video:**
  - **Palm Gesture (Photo):** While the drone is flying, face the camera and make a palm gesture to trigger a photo capture.
  - **Victory Gesture (Video):** Make a victory sign (V-sign) towards the camera to start or stop video recording.

- **Track Flight:** In the app, set a target or draw a flight path on your screen. The drone will automatically follow the designated track.

WITH 1080P FILM - LEVEL CAMERA

OFFER YOU MORE " CREATE SPACE"

1080P
pixel

Image: A detailed view of the drone's 1080P camera, highlighting its lens system for high-quality image capture.

recognize gesture
you can take a video or photo by a gesture

During the flight, face to the camera of the aircraft and make corresponding gestures. The aircraft will automatically recognize and respond intelligently, support photos or video.
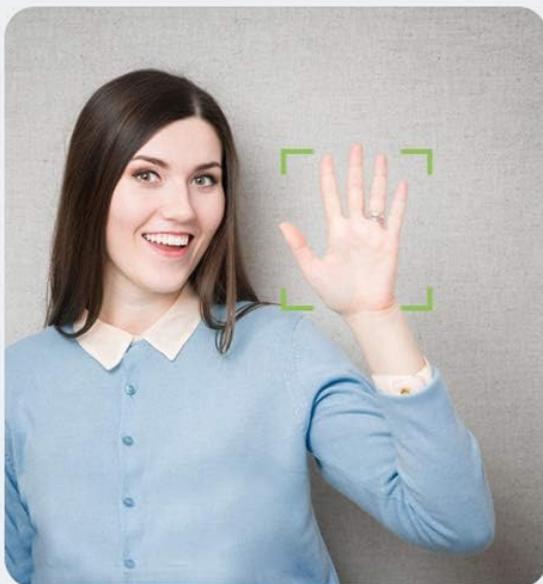
Palm recognition photo   Victory gesture video
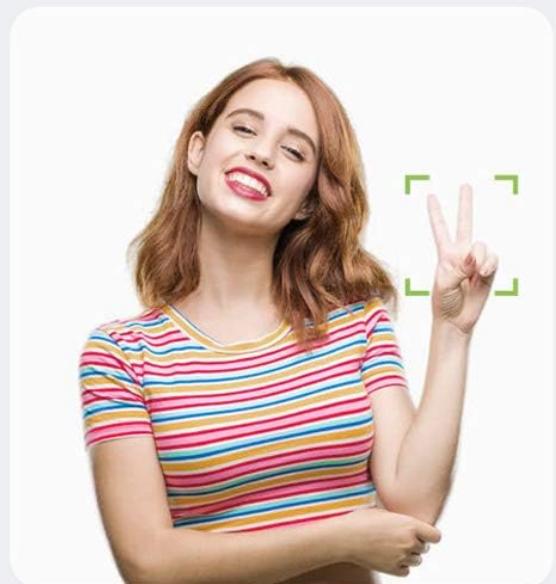
Image: Examples of gesture recognition for the drone's camera: a palm gesture for taking a photo and a victory gesture for recording a video.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and controller. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided backup propellers.
- **Storage:** When not in use for extended periods, store the drone and its components in a cool, dry place, preferably in the provided carry bag. Remove batteries from the controller.
- **Battery Care:** Do not store batteries fully charged or completely depleted. Charge them to about 50-60% for long-term storage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Drone does not respond to controller.	Not paired; low battery; out of range.	Ensure proper pairing (Section 6.2); charge batteries; fly within 80m range.
Drone flies erratically or drifts.	Uncalibrated gyroscope; damaged propeller.	Perform gyroscope calibration (refer to App Manual); replace damaged propellers.
No camera feed on smartphone.	Wi-Fi not connected; app not open.	Verify Wi-Fi connection to drone; ensure app is running.
Drone loses signal.	Out of range; interference.	Fly closer to the controller; avoid areas with strong Wi-Fi or radio interference.
One-Key Return not working as expected.	No GPS (this model uses optical flow/altitude hold, not GPS); obstacles in path.	One-Key Return is based on initial takeoff point and may not be precise. Ensure clear flight path.

9. SPECIFICATIONS

Feature	Detail
Brand	GoolRC
Model Name	LS-MIN
Color	Grey
Age Range (Recommended)	14 years and up
Video Capture Resolution	1080p
Effective Still Resolution	2.1 MP
Connectivity Technology	USB, Wi-Fi
Battery Capacity	650 Milliamp Hours (per battery)
Battery Type	Lithium Ion
Control Type	Remote Control, App Control
Maximum Range	80 Meters
Product Dimensions	4.92"L x 4.13"W x 1.18"H
Item Weight	12 ounces
Item Model Number	RIZ3990624661192WF

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided with

your purchase documentation or visit the official GoolRC website. Keep your proof of purchase for warranty claims.

You can find more information about GoolRC products and support at their official store:[GoolRC Amazon Store](#).