

GoolRC T32

GoolRC T32 RC Drone Instruction Manual

Model: T32

1. INTRODUCTION

Thank you for purchasing the GoolRC T32 RC Drone. This foldable quadcopter features a 720P HD camera, Headless Mode, and 2.4GHz 4-channel control with 6-axis stabilization, making it suitable for beginners. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting.

Key Features:

- Foldable arm design for portability.
- WiFi FPV transmission system with 720P HD camera for photos and videos.
- 2.4G 4CH transmitter and App control with G-sensor function.
- 6-axis flight control system for stable flight.
- Advanced barometer for automatic altitude hold, one-key takeoff/landing.
- Headless mode and one-key return function.
- High/low speed modes and 3D flip function.

2. SAFETY GUIDELINES

Please read and adhere to the following safety instructions to prevent injury or damage to the product.

- The aircraft is not resistant to crashes. Exercise caution during every flight.
- Beginners are advised to practice flying in open, grassy areas to minimize damage from potential crashes.
- If the aircraft is falling, immediately push the throttle stick to its lowest position to prevent motor blockage and potential burnout.
- The mobile phone screen displays real-time imaging scenarios. The phone itself is not included with the product.
- Carefully read all instructions before use. If you are a beginner, seek assistance from an experienced adult.
- This quadcopter is equipped with coreless motors. Continuous operation with different batteries without allowing the motors to cool down is not recommended.

Battery Safety Precautions:

- Do not over-charge or over-discharge batteries.
- Do not expose batteries to high temperatures.
- Do not dispose of batteries in fire.
- Do not immerse batteries in water.

3. PRODUCT OVERVIEW

The GoolRC T32 drone is designed for ease of use and portability. It features a compact, foldable design and an integrated camera for aerial photography and video.

Components:

- GoolRC T32 Quadcopter
- 2.4GHz Remote Control
- 3.7V 850mAh LiPo Battery (for drone)
- USB Charging Cable
- Spare Propellers
- User Manual

Drone Dimensions:

- Unfolded: 260 x 260 x 100mm
- Folded: 130 x 100 x 75mm
- Weight: 111g

Foldable Design



Image: The GoolRC T32 drone showcasing its foldable design and dimensions in both folded and unfolded configurations.

4. SETUP

4.1 Charging the Drone Battery

1. Remove the 3.7V 850mAh LiPo battery from the drone.
2. Connect the battery to the provided USB charging cable.
3. Plug the USB charging cable into a suitable USB power source (e.g., computer USB port, USB wall adapter).
4. Charging time is approximately 50 minutes. The indicator light on the charger will typically change or turn off once charging is complete.
5. Once charged, carefully reinsert the battery into the drone, ensuring a secure connection.

4.2 Installing Remote Control Batteries

Open the battery compartment on the back of the remote control and insert the required batteries (typically AA, not included), observing correct polarity. Close the compartment securely.

4.3 Pairing the Drone and Remote Control

1. Place the drone on a flat, level surface.
2. Turn on the drone. The indicator lights will flash.
3. Turn on the remote control.

4. Push the left throttle stick (usually the left joystick) fully up, then fully down. The drone's indicator lights will stop flashing and remain solid, indicating successful pairing.

4.4 App Installation and Connection (Optional)

For FPV flight and app control, download the designated GoolRC T32 app from your mobile device's app store. Connect your phone to the drone's Wi-Fi network (usually named GoolRC-T32-XXXX) and then open the app. *Note: Some users have reported issues with app functionality or availability.*

WiFi FPV Version with 720P HD camera



Image: The GoolRC T32 drone highlighting its WiFi FPV capability and 720P HD camera for real-time video transmission to a mobile device.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Controls

- **Left Joystick (Throttle/Yaw):**
 - Up/Down: Controls altitude (throttle).

- Left/Right: Controls rotation (yaw).
- **Right Joystick (Pitch/Roll):**
 - Up/Down: Controls forward/backward movement (pitch).
 - Left/Right: Controls sideward movement (roll).

5.2 One-Key Takeoff and Landing

After pairing, press the One-Key Takeoff/Landing button (refer to your remote control diagram for exact location). The drone will automatically ascend to a certain height or descend and land gently.

5.3 Altitude Hold Function

The built-in barometer allows the drone to maintain a stable altitude automatically. Once the desired height is reached, release the throttle stick, and the drone will hover at that position, providing a stable platform for aerial imaging.



Image: The GoolRC T32 drone demonstrating its altitude hold feature, maintaining a consistent height for stable flight and photography.

5.4 Headless Mode

Activate Headless Mode by pressing the dedicated button on the remote. In this mode, the drone's orientation is irrelevant; it will fly according to the direction of the remote control's right joystick relative to the pilot, simplifying control.



Image: Diagram showing the GoolRC T32 drone operating in Headless Mode, where its flight direction is relative to the pilot's joystick input, regardless of the drone's front.

5.5 One-Key Return

Press the One-Key Return button, and the drone will attempt to fly back towards the remote control's last recorded position. Ensure a clear flight path for this function.

One Key Return



Image: The GoolRC T32 drone initiating a One-Key Return, flying back towards the remote control's position.

5.6 High/Low Speed Switch

The drone offers high and low-speed modes. Use the low-speed mode for indoor flying or for beginners, and switch to high-speed mode for outdoor flights and more dynamic maneuvers.

High/Low Speed Switch

With high/low speed switch function so that you can choose low speed mode indoor, and high speed outdoor to get more flight fun.



Image: Visual representation of the GoolRC T32 drone's high/low speed switch function, allowing pilots to select between different flight speeds.

5.7 3D Flips

To perform a 3D flip, ensure the drone is at a sufficient altitude (at least 3 meters). Press the 3D Flip button, then quickly push the right joystick in the desired flip direction (forward, backward, left, or right). The drone will perform a 360-degree flip.

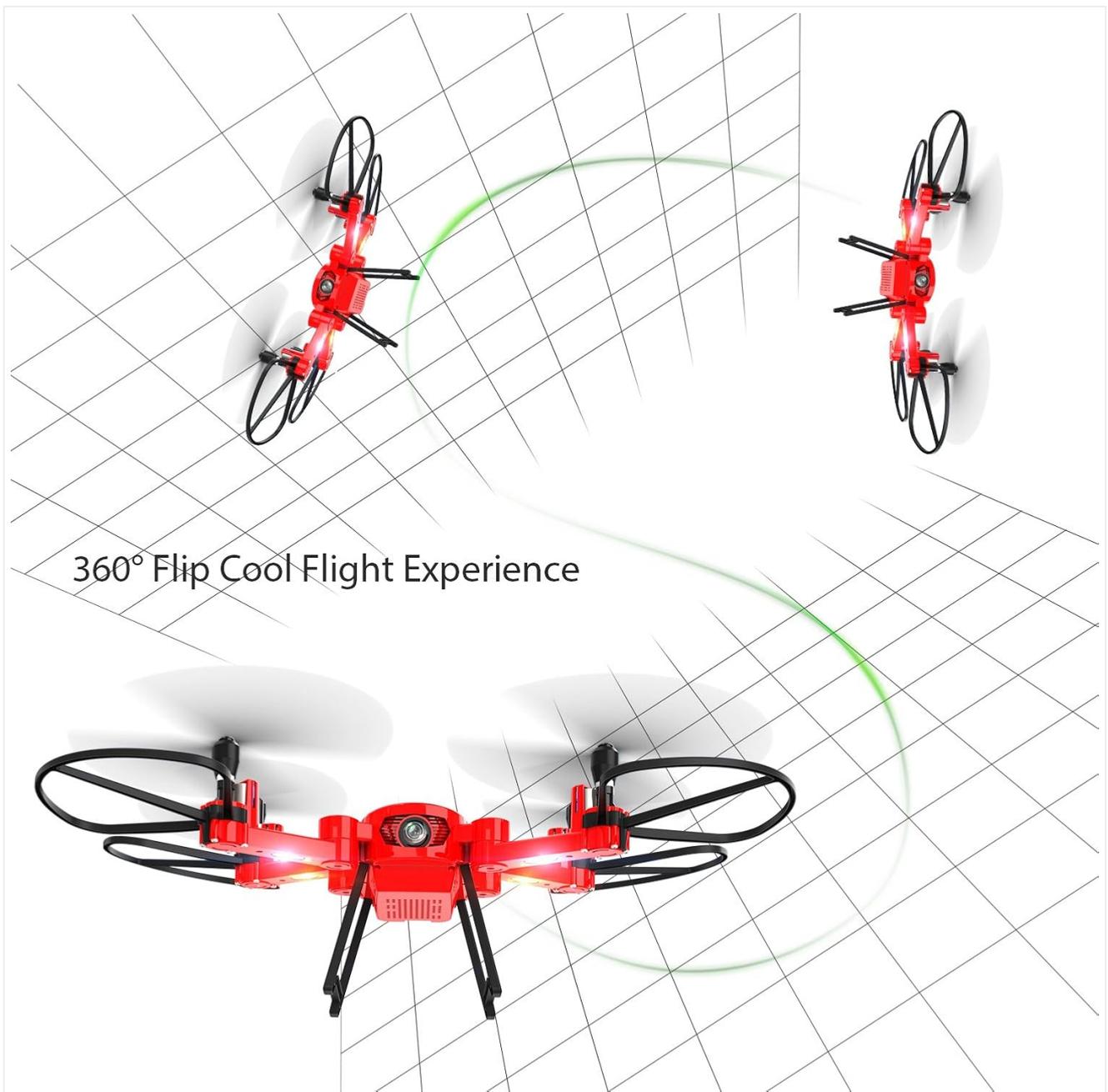


Image: The GoolRC T32 drone executing a 360-degree flip, demonstrating its acrobatic capabilities.

5.8 App Control with Gravity Sensor

When using the mobile app, you can control the drone by tilting your phone, utilizing its built-in gravity sensor. This provides an intuitive alternative control method.

App Control with Gravity Sensor Function

You can get full control of the drone with your cell phone and simply by tilting your phone.



Image: A person controlling the GoolRC T32 drone using a smartphone app with gravity sensor functionality, tilting the phone to direct the drone.

6. MAINTENANCE

6.1 Cleaning

Regularly clean the drone with a soft, dry cloth. Avoid using water or solvents that could damage electronic components.

6.2 Propeller Inspection

Periodically check propellers for damage (cracks, bends). Replace any damaged propellers immediately using the provided spare parts to ensure safe and stable flight.

6.3 Battery Care and Storage

Follow the battery safety precautions outlined in Section 2. When storing the drone for extended periods, ensure the battery is partially charged (around 50%) and stored in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the remote control if not in use for a long time.

7. TROUBLESHOOTING

If you encounter issues with your GoolRC T32 drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not respond to remote control.	Low battery in drone or remote; not paired correctly.	Charge drone battery, replace remote batteries, repair drone and remote.
Drone flies erratically or flips upon takeoff.	Motor malfunction; damaged propeller; drone not on a flat surface during calibration.	Inspect motors and propellers for damage and replace if necessary. Ensure drone is on a flat surface during pairing/calibration.
FPV video feed is laggy or disconnects.	Weak Wi-Fi signal; interference; app issues.	Ensure strong Wi-Fi connection. Fly in an area with minimal interference. Restart the app and drone. Check for app updates.
Drone does not take off or has insufficient power.	Drone battery not fully charged; motor issue.	Fully charge the drone battery. Check if all motors are spinning freely and without obstruction.
One-Key Return does not work as expected.	Drone too far from remote; GPS signal (if applicable) not strong.	Ensure drone is within effective control range. Note that this model relies on signal strength, not GPS, for return.

8. SPECIFICATIONS

Feature	Detail
Brand	GoolRC
Model Name	T32
Main Material	ABS Plastic
Color	Red
Motor Type	Coreless Motor
Camera Resolution	720P HD
Remote Control	2.4GHz Mode 2 / APP Control
Remote Distance	Approx. 70-100m
Charging Time	Approx. 50 minutes
Flying Time	Approx. 6-8 minutes
Quadcopter Battery	3.7V 850mAh LiPo battery

Feature	Detail
Battery Dimension	50 x 25 x 9mm
Item Dimension (Unfolded)	260 x 260 x 100mm
Item Dimension (Folded)	130 x 100 x 75mm
Item Weight	111g
Number of Channels	4
Recommended Age	14 years and up
Skill Level	Beginner
Special Features	FPV flight, HD camera, Headless mode, 3D flips, Altitude Hold, One Key Return

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact your retailer. Specific warranty terms may vary by region and seller.