

TEEROK T12S

TEEROK T12S GPS Drone User Manual

Model: T12S | Brand: TEEROK

1. INTRODUCTION

This user manual provides essential information for the safe and effective operation of your TEEROK T12S GPS Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury. The TEEROK T12S is a foldable FPV RC Quadcopter designed for adults and beginners, featuring a 4K EIS camera, brushless motor, and intelligent flight modes.



Figure 1: TEEROK T12S GPS Drone and included accessories.

2. PRODUCT OVERVIEW

2.1 Components

- **TEEROK T12S Drone:** Foldable quadcopter with integrated 4K EIS camera.
- **Remote Control:** Used for controlling the drone's flight and camera functions.
- **Batteries:** Two rechargeable Lithium Ion batteries providing up to 52 minutes of flight time.
- **Propellers:** Main and spare propellers for flight.
- **Charging Cable:** For recharging the drone batteries.
- **Screwdriver:** For maintenance and propeller replacement.
- **Carrying Case:** For safe storage and transport of the drone and accessories.
- **User Manual:** This document.

2.2 Key Features

- **2-Axis Gimbal with 4K EIS Camera:** The 4K camera features Electronic Image Stabilization (EIS) and a 2-axis mechanical gimbal to reduce blur and ensure high video quality. The camera has a 120° FOV and is adjustable from 0-90°.



Figure 2: 4K Camera with EIS for stable and clear imaging.

- **Optical Flow Positioning:** Equipped with a bottom optical flow lens for stable height holding and image capture, working in conjunction with EIS, dual-axis gimbal, and brushless motors for clearer visuals.
- **GPS Assistant:** Records the exact take-off position, enabling intelligent functions like Smart Return Home in case of low battery or signal loss.



INTELLIGENT GPS CONTROL SYSTEM

ENSURING THE SAFETY OF YOUR DRONE



Figure 3: GPS Assistant features for enhanced flight safety.

- **Advanced Flight Modes:** Includes Follow-Me mode, Surround mode (wrap-around), and Trajectory Flight (waypoint mode) for automated flight paths.

Figure 4: Advanced intelligent flight modes.

- **Brushless Motors:** Provide powerful, quieter operation with wind resistance up to level 6.
- **Extended Flight Time:** Two rechargeable batteries offer a combined flight time of up to 52 minutes.
- **SD Card Slot:** For direct storage of photos and videos.
- **FAA-Compliant Remote ID:** The drone's weight (260g) meets FAA requirements for worry-free operation.
- **Multiple Functions for Novices:** Headless Mode, One Key Take-off, and Altitude Hold simplify operation for beginners.
- **Time Lapse Photography:** Enables creation of professional-level photos and videos.
- **Foldable Design:** Compact and portable with an included carrying case for easy travel.

3. SETUP

3.1 Charging the Batteries

1. Connect the charging cable to the drone battery.
2. Plug the charging cable into a suitable USB power adapter (not included).
3. Allow sufficient time for the batteries to fully charge. A full charge typically takes approximately 90 minutes per battery.

3.2 Preparing the Drone

1. Unfold the drone arms carefully until they lock into place.
2. Ensure propellers are securely attached and free from damage.
3. Insert a charged battery into the drone's battery compartment.
4. (Optional) Insert an SD card into the designated slot for direct video and photo storage.



Figure 5: SD card slot for media storage.

3.3 Remote Control and App Connection

1. Power on the remote control.
2. Download and install the dedicated TEEROK drone app on your smartphone.
3. Place your smartphone into the remote control holder.
4. Connect your smartphone to the drone's Wi-Fi network as instructed in the app.
5. Open the app and follow the on-screen instructions to connect to the drone.

3.4 Calibration

Before each flight, ensure the drone is properly calibrated. Follow the calibration steps provided in the app or the quick guide. This typically involves calibrating the gyroscope and compass to ensure stable flight.

4. OPERATING THE DRONE

4.1 Basic Flight Controls

Familiarize yourself with the remote control layout and functions. The left joystick typically controls altitude and rotation, while the right joystick controls forward/backward and left/right movement. Refer to the quick guide for a detailed diagram of the remote control.

4.2 Take-off and Landing

- **One Key Take-off:** Press the designated button on the remote control or in the app for automatic take-off to a safe hovering altitude.
- **Manual Take-off:** Push both joysticks to the bottom-outer corners to start the propellers, then slowly push the left joystick up to ascend.
- **Landing:** Press the "One Key Return" button for automatic landing at the take-off point, or slowly pull the left joystick down to descend manually.

4.3 Intelligent Flight Modes

The TEEROK T12S offers several intelligent flight modes for enhanced user experience:

- **Follow-Me Mode:** The drone will automatically follow the subject (e.g., you) detected by the camera.



Figure 6: Drone in Follow Me mode.

- **Surround Mode (Point of Interest):** The drone will circle a designated point of interest, capturing footage from all angles.



Figure 7: Drone performing Surround Mode flight.

- **Trajectory Flight (Waypoint Mode):** Draw a path on the app's map, and the drone will fly along the specified route.

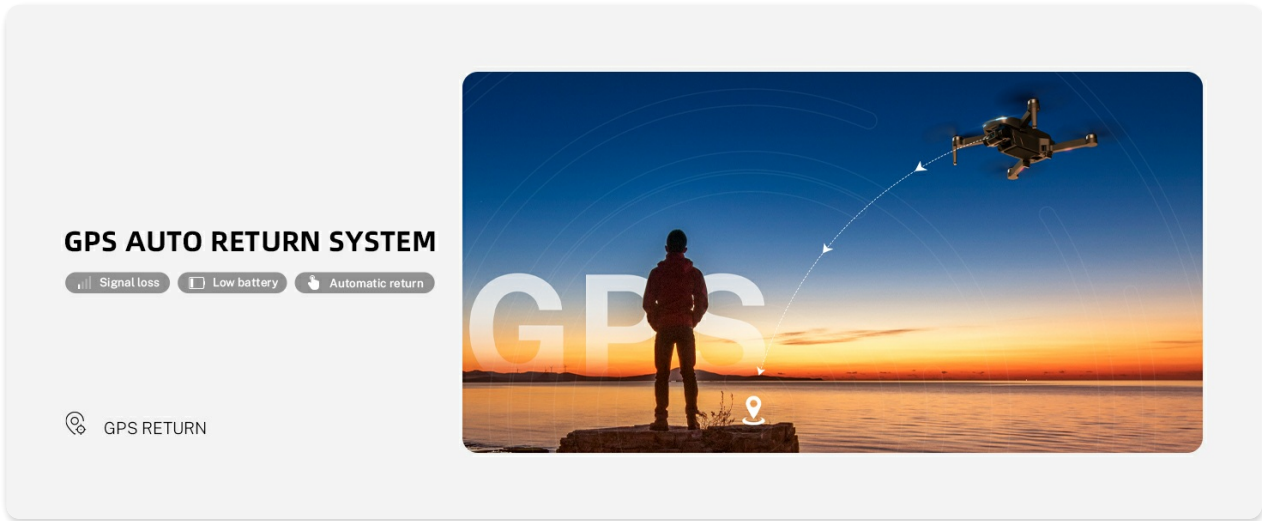


Figure 8: Drone executing a Trajectory Flight.

- **Gesture Control:** Use specific hand gestures to trigger photo or video capture.

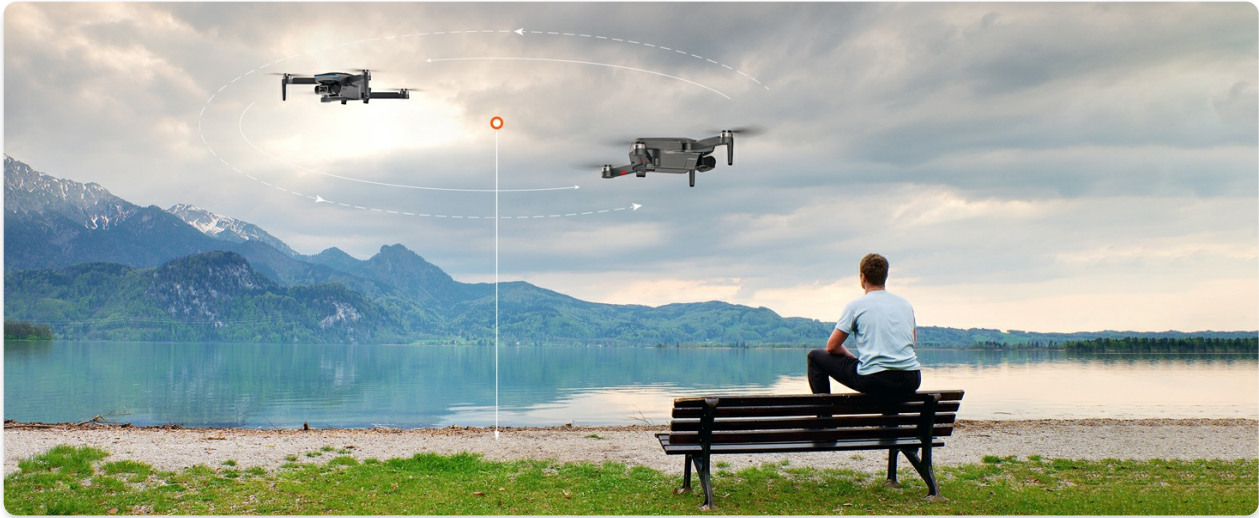


Figure 9: Gesture Control for hands-free media capture.

4.4 Camera Operation

The 4K EIS camera captures high-quality photos and videos. Use the app interface to control camera settings, switch between photo/video modes, and adjust the camera angle (0-90° adjustable). Footage can be saved directly to an SD card or streamed to your connected smartphone.

Your browser does not support the video tag.

Video 1: Official TEEROK T12S GPS Drone with 4K EIS Camera product video, showcasing features like brushless motor, auto satellite search, 2-axis gimbal, steady hovering, 4K HD camera, GPS Follow Me mode, wind resistance, gesture control, surround mode, waypoint mode, and one-key return.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drone.

- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers using the provided screwdriver and spare blades.
- **Cleaning:** Gently wipe the drone body and camera lens with a soft, dry cloth. Avoid using harsh chemicals or

excessive moisture.

- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries. If storing for extended periods, charge them to about 50% capacity.
- **Storage:** When not in use, fold the drone and store it in its dedicated carrying case to protect it from dust and physical damage.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or improperly inserted.	Ensure battery is fully charged and correctly inserted.
Loss of control/unstable flight.	Improper calibration; strong wind interference; signal interference.	Recalibrate the drone; fly in calm conditions; ensure clear line of sight to remote.
No image transmission to phone.	Wi-Fi not connected; app issue.	Verify phone is connected to drone's Wi-Fi; restart app and drone.
Drone does not return home.	Insufficient GPS signal; low battery.	Ensure strong GPS signal (indicated by solid GPS light); check battery level.
Poor video/photo quality.	Dirty lens; insufficient lighting; EIS not active.	Clean camera lens; fly in well-lit conditions; ensure EIS is enabled in app.

7. SPECIFICATIONS

Feature	Detail
Model Name	T12S
Brand	TEEROK
Item Weight	264 Grams (9.3 ounces)
Product Dimensions	8.26"L x 3.34"W x 7.08"H
Video Capture Resolution	4K

Feature	Detail
Camera Features	2-Axis Gimbal, EIS (Electronic Image Stabilization), 120° FOV, 0-90° Adjustable
Motor Type	Brushless Motor
Flight Time	Up to 52 minutes (with 2 batteries)
Connectivity Technology	5G Wi-Fi FPV Transmission
Control Type	Remote Control, App Control
Special Features	Integrated GPS, Optical Flow Positioning, Follow Me, Surround Mode, Trajectory Flight, Headless Mode, One Key Take-off/Return, Altitude Hold, Gesture Control, Time Lapse Photography
Battery Type	Lithium Ion (2 included)
Storage Media	SD Card (not included)
FAA Compliance	FAA-compliant Remote ID (weight 260g)

8. WARRANTY AND SUPPORT

TEEROK provides comprehensive support for its products.

- **Warranty:** 30-day whole unit warranty for quality-related issues.
- **Accessories Warranty:** 100-day warranty for accessories for any reason.
- **Customer Service:** If you have any questions about the performance or operation of your TEEROK T12S drone, please contact TEEROK directly for quick responsive after-sales support.
- **Online Resources:** Additional user guides and manuals may be available on the TEEROK official website or through the provided app.