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Potensic T18

Potensic T18 GPS FPV RC Quadcopter User Manual

Model: T18

Introduction

Thank you for choosing the Potensic T18 GPS FPV RC Quadcopter. This drone is designed for an enhanced flying experience, featuring advanced GPS for precise positioning, a 1080P HD camera for capturing high-quality aerial footage, and intelligent flight modes such as Follow Me and Auto Return Home. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure you get the most out of your T18 drone.

Safety Information

Always prioritize safety when operating the drone. Failure to follow these guidelines may result in injury, damage to property, or legal issues.

- **Read the Manual:** Thoroughly read and understand this entire manual before operating the drone.
- **Age Requirement:** This product is recommended for users 13 years and up.
- **Flight Environment:** Fly in open areas, away from people, buildings, trees, power lines, and water. Avoid flying in strong winds or adverse weather conditions.
- **Line of Sight:** Always maintain visual line of sight with the drone during flight.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or short-circuit batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Ensure propellers are securely attached before flight.
- **GPS Signal:** Ensure a strong GPS signal before take-off for stable flight and accurate Return-to-Home functionality.
- **Local Regulations:** Be aware of and comply with all local laws and regulations regarding drone operation.

Package Contents

Verify that all items are present in your package:

- Potensic T18 GPS FPV RC Quadcopter
- Remote Controller
- 1080P HD Camera (pre-installed or separate)

- Rechargeable Drone Batteries (x2)
- USB Charging Cable
- Propellers (spare set)
- Propeller Guards
- Screwdriver
- Aluminum Carrying Case
- User Manual (this document)



Image: The Potensic T18 drone, its remote controller with a phone mount, two drone batteries, and the aluminum carrying case, illustrating the complete package contents.

Components Overview

Drone Components

- **Propellers:** Four rotating blades for lift and propulsion.
- **Motors:** Drive the propellers.
- **Camera:** 1080P HD camera with adjustable wide-angle lens for photo and video capture.
- **Battery Compartment:** Houses the drone's rechargeable battery.
- **Landing Gear:** Provides stable support for landing.
- **LED Indicators:** Provide status information (e.g., GPS signal, battery level).



Image: A close-up view of the Potensic T18 drone's 1080P HD camera, highlighting its 75-degree adjustable angle and 120-degree wide-angle lens for capturing expansive views.

Remote Controller Components

- **Left Joystick:** Controls altitude (throttle) and yaw (rotation).
- **Right Joystick:** Controls forward/backward (pitch) and left/right (roll).
- **Phone Holder:** Securely holds your smartphone for FPV viewing.
- **One-Key Take-off/Landing Button:** Initiates automatic take-off or landing.
- **Return-to-Home (RTH) Button:** Commands the drone to return to its take-off point.
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Speed Mode Switch:** Toggles between different flight speeds.
- **Power Button:** Turns the remote controller on/off.

Setup

1. Charging Batteries

Fully charge both drone batteries and the remote controller battery before first use. Use the provided USB charging cable. The drone batteries typically take 60-90 minutes to fully charge, providing 8-10 minutes of flight time per battery.



Image: A close-up view of the Potensic T18 drone's battery compartment, showing two detachable batteries, each offering 8-10 minutes of flight time.

2. Installing Batteries

- **Drone Battery:** Insert the charged drone battery firmly into the battery compartment on the rear of the drone until it clicks into place.
- **Remote Controller Battery:** Open the battery cover on the back of the remote controller and insert the charged battery, ensuring correct polarity.

3. Propeller Installation (if not pre-installed)

Ensure propellers are installed correctly. Each propeller is marked with 'A' or 'B'. Match them to the corresponding motor arms. Use the provided screwdriver to secure them.

4. App Download and Connection

Download the "Potensic-G" app from your smartphone's app store (iOS or Android). Turn on the drone and remote controller. Connect your smartphone to the drone's Wi-Fi network (usually named "Potensic_XXXXXX"). Open the app to establish the connection for FPV viewing and advanced features.

5. Calibration

- **Compass Calibration:** Essential for stable flight and accurate GPS functions. Follow the on-screen instructions in the app or the manual's specific steps for horizontal and vertical rotations.
- **Gyroscope Calibration:** Place the drone on a flat, level surface. Perform gyroscope calibration as instructed in the app or manual to ensure stable hovering.

Operating Instructions

1. Pre-Flight Checks

- Ensure batteries are fully charged and securely installed.
- Check that propellers are correctly attached and undamaged.
- Confirm a strong GPS signal (at least 7-8 satellites) before outdoor flight.
- Verify the drone and remote controller are paired.
- Check for clear flight path and safe environment.

2. Take-off and Landing

- **Manual Take-off:** Push both joysticks to the bottom-outer corners to arm the motors. Slowly push the left joystick (throttle) up to take off.
- **One-Key Take-off:** Press the One-Key Take-off button on the remote controller. The drone will automatically ascend to a safe hovering altitude.
- **Manual Landing:** Slowly pull the left joystick (throttle) down until the drone lands. Hold it down for a few seconds to stop the motors.
- **One-Key Landing:** Press the One-Key Landing button. The drone will automatically descend and land.

3. Flight Controls

- **Left Joystick (Throttle/Yaw):**
  - Up/Down: Increase/Decrease altitude.
  - Left/Right: Rotate drone left/right (yaw).
- **Right Joystick (Pitch/Roll):**
  - Up/Down: Fly forward/backward (pitch).
  - Left/Right: Fly left/right (roll).

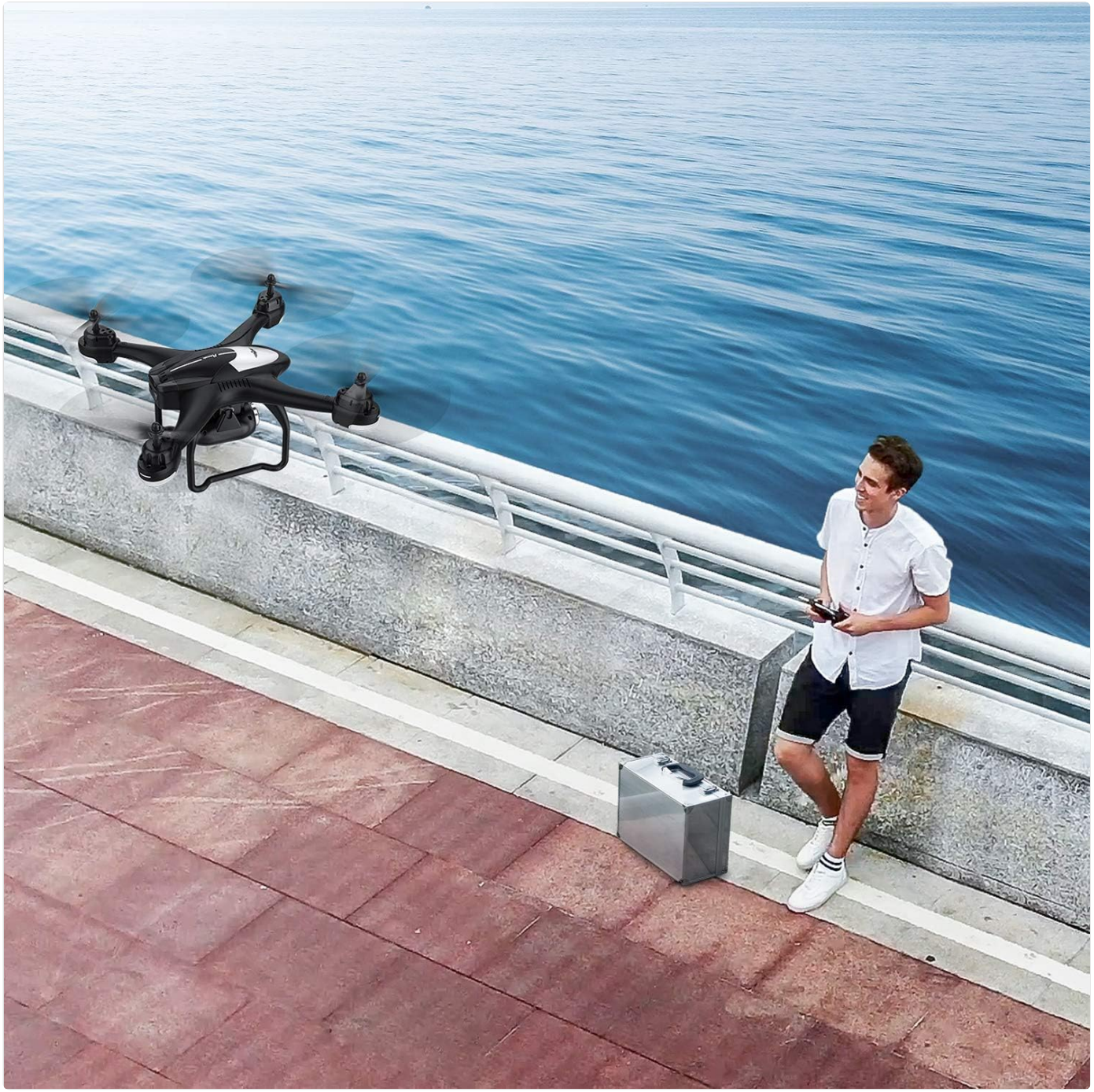


Image: The Potensic T18 drone in flight over a body of water, with a person on the shore operating the remote controller, demonstrating typical flight operation.

4. Intelligent Flight Modes

- **Follow Me Mode:** The drone will automatically follow the remote controller or your smartphone (if connected via app), keeping you in the frame.



Image: A graphic illustrating the "Follow Me" technology, where the drone automatically tracks and follows a moving subject, such as a person and a dog on a beach.

- **Waypoint Flight (Draw the Dot):** In the "Potensic-G" app, draw a path on the map, and the drone will fly along the specified route while maintaining its altitude.



Image: A graphic demonstrating the "Draw the Dot" feature, where a user draws a flight path on a map within the app, and the drone follows that precise route.

- **Return-to-Home (RTH):**
  - **Smart RTH:** Press the RTH button on the remote controller. The drone will return to its recorded take-off point.
  - **Low Battery RTH:** The drone will automatically return when the battery is critically low.
  - **Signal Loss RTH:** If the connection between the drone and remote controller is lost, the drone will automatically return.



Image: A graphic illustrating the GPS Auto Return feature, showing the drone returning to a designated home point due to low battery, signal loss, or transmitter power off.

5. Camera Operation

Use the dedicated Photo/Video button on the remote controller or the controls within the "Potensic-G" app to capture images and record videos. Ensure a compatible SD card (16/32 GB, not included) is inserted into the drone's camera for 1080P content storage.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Do not use liquid cleaners.
- **Storage:** Store the drone and its components in the provided aluminum carrying case in a cool, dry place, away from direct sunlight.
- **Battery Care:**
  - Do not store batteries fully charged or fully discharged for extended periods. Charge them to about 50-60% for long-term storage.
  - Remove batteries from the drone and remote controller when not in use.

- Inspect batteries regularly for any signs of damage or swelling.

- **Propeller Replacement:** If propellers are damaged, replace them with genuine Potensic T18 spare parts. Ensure correct 'A' and 'B' propeller types are installed on the correct motor arms.

Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or not installed correctly.	Ensure battery is fully charged and inserted firmly.
Remote controller does not connect.	Remote battery low; not paired; interference.	Charge remote battery. Re-pair drone and remote. Move to an area with less interference.
Drone drifts during flight.	Gyroscope not calibrated; uneven surface for take-off.	Perform gyroscope calibration on a flat surface.
GPS signal weak or unavailable.	Flying indoors; too many obstacles; compass not calibrated.	Fly outdoors in an open area. Perform compass calibration.
FPV image is blurry or no image.	Camera not connected; Wi-Fi issue; lens dirty.	Ensure camera is properly connected. Reconnect Wi-Fi. Clean camera lens.
Drone does not respond to controls.	Out of range; low drone battery; signal interference.	Fly within range. Check drone battery. Move to a clear area.

Specifications

- **Model:** T18
- **Material Type:** Aluminium
- **Number of Channels:** 2
- **Recommended Age:** 13 years and up
- **Package Dimensions:** 35.05 x 26.92 x 16.51 cm
- **Item Weight:** 1.81 kg
- **Batteries:** 2 x 1000mAh rechargeable drone batteries (included), Remote controller battery (included)
- **Flight Time:** Approximately 8-10 minutes per battery
- **Camera:** 1080P HD with 120° Wide-Angle FOV, 75° Adjustable
- **Features:** GPS Positioning, Auto Return Home (Low Battery/Signal Weak/Out of Range), Follow Me Mode, Waypoint Flight, Altitude Hold

Warranty and Support

Potensic provides a 12-month hassle-free warranty to ensure the enjoyment of your purchase. For technical support, warranty claims, or any questions regarding your Potensic T18 drone, please contact Potensic customer service through their official website or the contact information provided with your product packaging. Please retain your proof of purchase for warranty service.
For further assistance, visit the official Potensic website:www.potensic.com

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