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> Toladrone TD12 Pro Drone with 1080P HD Camera User Manual

Toladrone TD12 Pro

Toladrone TD12 Pro Drone User Manual

Model: TD12 Pro

1. INTRODUCTION

Thank you for choosing the Toladrone TD12 Pro Drone. This manual provides essential information for safe operation, setup, and maintenance of your drone. Please read it thoroughly before first use to ensure proper functionality and to maximize your flying experience.



Image: The Toladrone TD12 Pro drone in flight over a scenic mountain landscape, showcasing its aerial capabilities.

2. SAFETY GUIDELINES

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

- **Read the Manual:** Understand all instructions and warnings before operation.
- **Age Recommendation:** This drone is suitable for children and beginners. Adult supervision is recommended for younger users.

- **Flight Environment:** Fly in open, clear areas away from people, animals, buildings, and power lines. Avoid flying in strong winds (above Level 3 wind resistance) or adverse weather conditions.
- **Battery Safety:** Use only approved chargers and batteries. Do not overcharge or puncture batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Always ensure propeller guards are installed.
- **Line of Sight:** Maintain visual line of sight with the drone at all times.
- **Local Regulations:** Be aware of and comply with all local drone flying regulations and restrictions.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x Toladrone TD12 Pro Drone
- 1x Remote Control
- 1x Modular Battery (1600mAh Lithium-polymer)
- 1x USB Charging Cable
- 4x Spare Propellers
- 1x Screwdriver
- 1x Portable Carrying Bag
- 1x User Manual



Image: A complete view of the Toladrone TD12 Pro drone package contents, neatly arranged.

4. PRODUCT OVERVIEW

4.1 Drone Components

Familiarize yourself with the main parts of your TD12 Pro drone:

- **Foldable Arms:** For compact storage and portability.
- **Brushless Motors:** Provide powerful, stable, and quiet flight.
- **Propellers:** Generate lift.
- **Propeller Guards:** Protect propellers and surroundings from collisions.
- **1080P HD Camera:** Main camera for high-definition aerial photography and video.
- **Bottom Camera:** Secondary camera, often used for optical flow positioning.
- **Modular Battery Compartment:** For easy battery insertion and removal.
- **LED Indicator Lights:** Indicate drone status.



Image: Detailed view of the Toladrone TD12 Pro drone, emphasizing its 1080P HD main camera and bottom camera for dual perspective.

4.2 Remote Control

The remote control allows you to operate the drone and access various flight functions.

90° Motorised Adjustable

Seeing the world from a different perspective



Image: The remote control for the TD12 Pro drone, with a smartphone displaying the camera feed and controls for motorized camera adjustment.

5. SETUP

5.1 Battery Charging and Installation

1. **Charge the Drone Battery:** Connect the modular drone battery to the USB charging cable and plug it into a 5V/2A USB adapter (not included). The indicator light on the battery will show charging status. Charging typically takes 60-90 minutes for a 15-minute flight time.
2. **Install Drone Battery:** Once fully charged, insert the modular battery into the drone's battery compartment until it clicks securely into place.
3. **Install Remote Control Batteries:** Open the battery cover on the back of the remote control and insert 3x AAA batteries (not included), ensuring correct polarity.



Modular Battery

Bring a more convenient and safer flight experience



3.7V Lithium Voltage

1600mAh Battery Capacity

15 Minutes Flight Time

Image: The modular battery for the TD12 Pro drone connected to a charger, illustrating the charging process.

5.2 Propeller Installation

The drone comes with pre-installed propellers and propeller guards. If replacement is needed:

1. Identify the 'A' and 'B' markings on the propellers and drone arms.
2. Attach 'A' propellers to 'A' motor shafts and 'B' propellers to 'B' motor shafts.
3. Secure propellers with the provided screws using the screwdriver.
4. Ensure propeller guards are securely attached to each motor arm.

5.3 App Installation and Pairing

1. **Download App:** Scan the QR code in the quick start guide or search for the official Toladrone app in your smartphone's app store.
2. **Power On Drone:** Press and hold the power button on the drone until the indicator lights turn on.
3. **Power On Remote Control:** Press the power button on the remote control.

4. **Connect Wi-Fi:** On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., "Toladrone-XXXXXX").
5. **Open App:** Launch the Toladrone app. The live camera feed should appear, indicating successful connection.
6. **Pairing:** Push the left joystick on the remote control up and then down. The drone's indicator lights will stop flashing and remain solid, indicating successful pairing.

6. OPERATING THE DRONE

6.1 Pre-Flight Checks

- Ensure drone and remote control batteries are fully charged.
- Check that propellers are securely attached and undamaged.
- Confirm propeller guards are in place.
- Choose an open, safe flying area.

6.2 Take-off and Landing

- **One-Key Take-off:** After pairing, press the One-Key Take-off/Landing button on the remote control. The drone will automatically ascend to a stable altitude.
- **Manual Take-off:** After pairing, push both joysticks down and outwards simultaneously to unlock the motors. Then, gently push the left joystick (throttle) upwards to ascend.
- **One-Key Landing:** Press the One-Key Take-off/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Gently pull the left joystick (throttle) downwards until the drone lands. Once landed, push both joysticks down and inwards to stop the motors.

6.3 Flight Controls and Modes



Image: Visual representation of the TD12 Pro drone's key flight features including speed modes, altitude hold, and headless mode.

- **Altitude Hold:** The drone maintains its current altitude automatically, making it easier to control.
- **3 Speed Modes:** Press the speed button on the remote control to cycle through low, medium, and high speeds. Adjust according to your skill level and wind conditions.
- **Headless Mode:** In Headless Mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. Press the Headless Mode button to activate/deactivate.
- **Optical Flow Positioning:** The bottom camera assists in maintaining stable hovering indoors or in areas with clear ground patterns.

6.4 Advanced Flight Functions

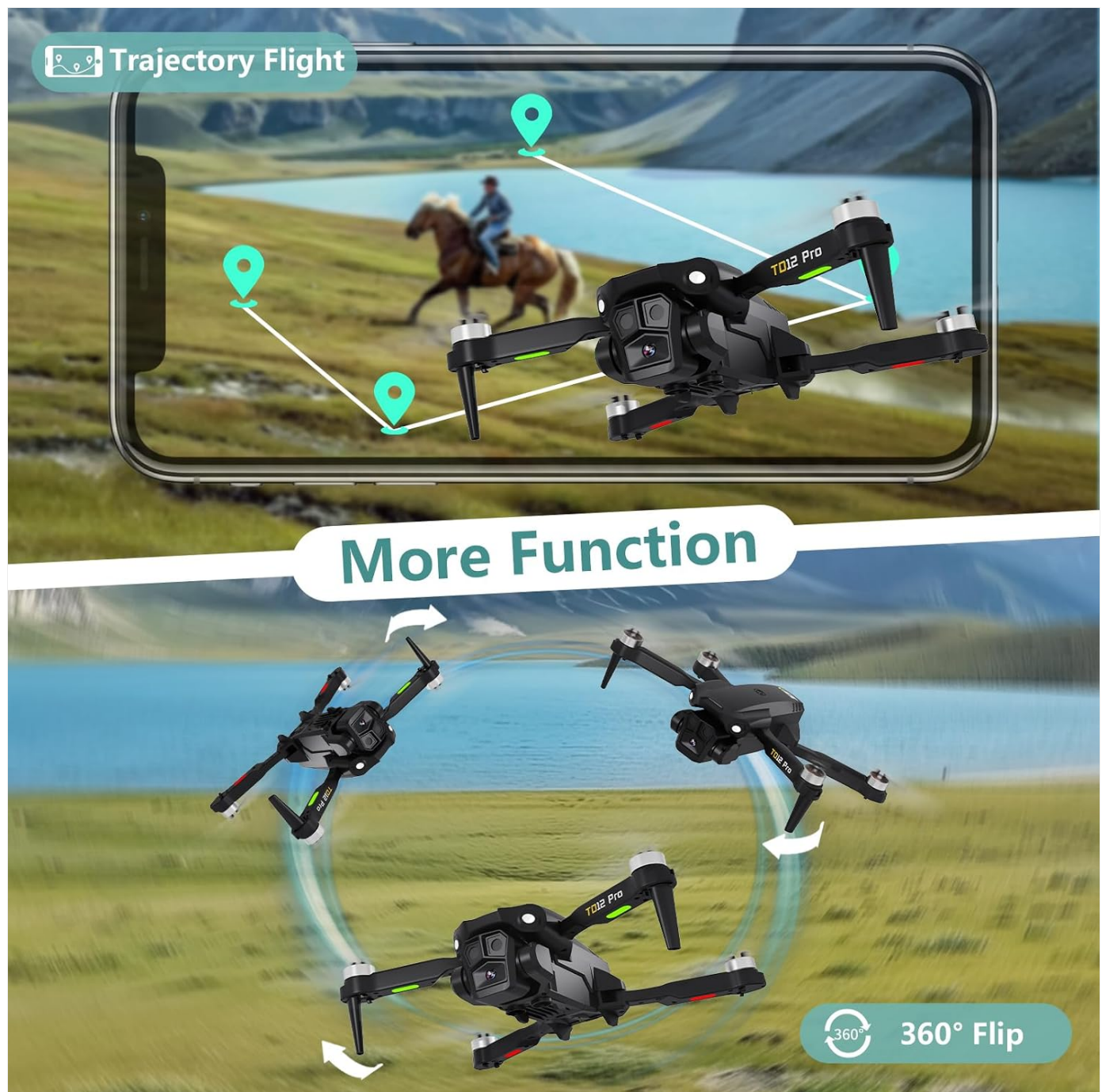


Image: The TD12 Pro drone executing advanced maneuvers like trajectory flight (following a drawn path on the app) and a 360-degree flip.

- **360° Flip:** Press the 360° Flip button and then move the right joystick in any direction to perform an aerial flip.
- **Trajectory Flight:** In the app, draw a desired flight path on the screen. The drone will automatically follow this path.
- **Gravity Control:** Use your smartphone's gyroscope to control the drone's flight direction by tilting the phone.

6.5 Camera Operation

- **1080P HD Camera:** The drone is equipped with a 1080P HD camera for clear photos and videos.
- **90° Motorized Adjustable Camera:** Use the dedicated button on the remote control to adjust the camera angle up or down during flight.
- **Photo/Video Capture:** Use the dedicated buttons on the remote control or within the app to take photos or start/stop video recording. Media will be saved to your connected smartphone or an optional SD card (if supported and installed).

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Do not use harsh chemicals.
- **Propeller Replacement:** If propellers are damaged, replace them immediately using the spare propellers and screwdriver provided. Ensure correct 'A' and 'B' propeller placement.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50% for long-term storage.
- **Storage:** Fold the drone arms and store it in the portable carrying bag to protect it from dust and damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not installed correctly	Charge drone battery; Reinstall battery securely
Remote control does not respond	Low remote control batteries; Not paired	Replace AAA batteries; Re-pair drone and remote control
No camera feed in app	Wi-Fi not connected; App not open	Connect to drone's Wi-Fi; Open the Toladrone app
Drone drifts during flight	Calibration needed; Wind interference	Perform gyroscope calibration (refer to app instructions); Fly in calmer conditions
Short flight time	Battery not fully charged; Old battery	Ensure full charge; Consider replacing battery if performance degrades significantly

9. SPECIFICATIONS

Feature	Detail
Model Name	TD12 Pro
Brand	Toladrone
Product Dimensions	18 x 16 x 6 cm (unfolded)
Weight	112 Grams
Material	Plastic
Color	Black
Battery Type	Lithium-polymer
Battery Capacity	1600 mAh
Charging Time	Approx. 60-90 minutes
Flight Time	Approx. 15 minutes
Camera Resolution	1080p HD (Video & Photo)
Camera Adjustment	90° Motorized

Feature	Detail
Motor Type	Brushless
Connectivity	Wi-Fi (2.4GHz)
Control Type	Remote Control, App Control
Skill Level	Beginner
Age Range	Child

10. WARRANTY AND SUPPORT

Toladrone is committed to providing professional assistance and instructions to ensure a great flying experience. If you encounter any issues during the use of the drone, remote control, or app, our customer service team is ready to help with all questions and problems.

For support, please contact us via email:

Toladrone_support@163.com



Image: A customer support representative, symbolizing Toladrone's commitment to customer service and support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question