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Toladrome TD12Pro

Toladrome TD12Pro Drone User Manual

Model: TD12Pro

INTRODUCTION

Welcome to the Toladrome TD12Pro Drone User Manual. This guide provides essential information for the safe operation, setup, and maintenance of your new TD12Pro drone. Please read this manual thoroughly before your first flight to ensure proper usage and to maximize your flying experience.

The TD12Pro is a foldable RC quadcopter featuring a 4K camera with 90° electric adjustment, brushless motors, Level 3 wind resistance, and optical flow positioning, designed for both beginners and experienced pilots.



Image: The Toladrone TD12Pro drone, its remote controller, and a smartphone showing the live camera feed. This image illustrates the main components of the drone system.

SAFETY GUIDELINES

Adhering to these safety guidelines is crucial for preventing accidents and ensuring a safe flight experience.

- **Pre-Flight Check:** Always inspect the drone, propellers, and battery before each flight.
- **Environmental Conditions:** Do not fly in strong winds (above Level 3), rain, snow, or fog. Avoid flying near power lines, buildings, or crowds.
- **Line of Sight:** Maintain visual line of sight with the drone at all times.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or puncture batteries.
- **Propeller Safety:** Keep hands and face clear of rotating propellers.
- **Respect Privacy:** Be mindful of privacy laws when using the camera.
- **Age Recommendation:** This product is recommended for adults.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Toladrone TD12Pro Drone
- Remote Controller
- Rechargeable Drone Battery (1600mAh Lithium Polymer)
- USB Charging Cable
- Spare Propellers
- Screwdriver
- User Manual

COMPONENT IDENTIFICATION

Drone Overview



Image: The Toladrone TD12Pro drone in its unfolded state, showcasing its propellers, motors, and camera module. This image helps identify the main parts of the drone.

1. **Propellers:** Generate lift for flight.

2. **Brushless Motors:** Provide power and stability.
3. **4K HD Camera:** Captures photos and videos, 90° electrically adjustable.
4. **Optical Flow Sensor:** Located on the bottom, assists with stable hovering.
5. **LED Indicator Lights:** Indicate drone status and direction.
6. **Modular Battery Compartment:** Houses the rechargeable battery.
7. **Foldable Arms:** Allow for compact storage and portability.

Remote Controller Overview



Image: The remote controller for the Toladrome TD12Pro, featuring joysticks, control buttons, and a smartphone holder. This image helps users identify the controller's functions.

1. **Left Joystick:** Controls altitude (up/down) and rotation (left/right).
2. **Right Joystick:** Controls forward/backward and left/right movement.
3. **One-Key Takeoff/Landing Button:** Initiates automatic takeoff or landing.
4. **Speed Mode Button:** Toggles between low, medium, and high-speed modes.
5. **Headless Mode Button:** Activates headless flight mode.
6. **360° Flip Button:** Executes a 360-degree flip.

7. **Photo/Video Button:** Captures photos or starts/stops video recording.
8. **Power Button:** Turns the controller on/off.
9. **Smartphone Holder:** Secures your smartphone for FPV viewing.

SETUP GUIDE

1. Battery Charging and Installation



Image: The modular battery for the TD12Pro drone connected to a USB charger. This image demonstrates the charging process for the drone's battery.

1. Connect the drone battery to the USB charging cable.
2. Plug the USB cable into a 5V/2A USB adapter (not included).
3. The indicator light on the battery will show charging status. A full charge typically takes approximately 15 minutes of flight time per 1600mAh battery.
4. Once charged, insert the battery firmly into the drone's battery compartment until it clicks into place.

2. Propeller Installation

- Ensure the drone is powered off.
- Match the propellers to the correct motor arms (usually marked A and B).
- Attach each propeller securely using the provided screws and screwdriver.

3. Remote Controller Setup

- Install 3x AAA batteries (not included) into the remote controller.
- Unfold the smartphone holder and place your smartphone securely.

4. App Installation and Connection

- Download the official Toladrone app from your smartphone's app store (iOS/Android).
- Power on the drone, then power on the remote controller.
- On your smartphone, connect to the drone's Wi-Fi network (usually named "TD12Pro-XXXXXX").
- Open the Toladrone app to establish a connection and view the live camera feed.

OPERATING INSTRUCTIONS

1. Pre-Flight Checklist

- Ensure drone and controller batteries are fully charged.
- Propellers are correctly installed and secure.
- Fly in an open area, away from obstacles, people, and water.
- Check weather conditions; avoid strong winds.
- Drone and app are connected.

2. Takeoff and Landing

- **One-Key Takeoff:** Press the **One-Key Takeoff/Landing** button. The drone will automatically ascend to a safe height and hover.
- **Manual Takeoff:** Push both joysticks down and outwards to unlock motors. Then, slowly push the left joystick up to ascend.
- **One-Key Landing:** Press the **One-Key Takeoff/Landing** button again. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left joystick down until the drone lands. Once landed, push both joysticks down and inwards to lock motors.



Image: The TD12Pro drone illustrating its Altitude Hold, One-key Take-off/Landing, and Headless Mode functions. This image visually explains key flight features.

3. Flight Controls and Features

- **Altitude Hold:** The drone maintains a stable altitude automatically, making it easier to control.
- **3-Speed Adjustment:** Press the **Speed Mode** button to cycle through low, medium, and high speeds. Adjust according to your skill level and wind conditions.
- **Headless Mode:** Press the **Headless Mode** button. In this mode, the drone's front direction is irrelevant; it will move relative to the pilot's orientation. Press again to exit.
- **360° Flip:** While flying, press the **360° Flip** button, then push the right joystick in any direction to perform a flip.
- **Trajectory Flight:** In the app, draw a path on your screen, and the drone will follow it automatically.
- **Optical Flow Positioning:** This feature uses a downward-facing camera to analyze ground patterns, providing stable hovering and precise positioning, especially useful indoors or in areas with minimal GPS signal.



Image: The TD12Pro drone showcasing its Trajectory Flight, Headless Mode, and 360-degree Flip capabilities. This image provides visual context for advanced flight maneuvers.

4. Camera Operation (4K HD & 90° Electric Adjustment)

Capture Family Time



4K HD Camera



Dual Camera



Image: A close-up of the TD12Pro drone's 4K HD camera, emphasizing its lens. This image highlights the drone's primary imaging component.

- **Capturing Photos:** While flying, press the **Photo/Video** button once on the controller or tap the photo icon in the app.
- **Recording Videos:** Press and hold the **Photo/Video** button on the controller or tap the video icon in the app to start recording. Press again to stop.
- **90° Electric Adjustment:** Use the dedicated button on the remote controller (or in the app) to adjust the camera's vertical angle during flight, allowing for diverse shooting perspectives.

90° Motorised Adjustable

Seeing the world from a different perspective



Image: The TD12Pro drone demonstrating its 90-degree motorized camera adjustment feature. This image shows how the camera can be tilted for different viewing angles.

MAINTENANCE

1. Cleaning

- Wipe the drone and controller with a soft, dry cloth after each use.
- Do not use harsh chemicals or solvents.
- Ensure no dust or debris obstructs the camera lens or optical flow sensor.

2. Storage

- Store the drone in a cool, dry place, away from direct sunlight.
- Remove batteries from both the drone and controller if storing for extended periods.
- Fold the drone arms for compact storage.

3. Battery Care

- Charge batteries fully before storage if they will not be used for a long time.
- Do not store fully depleted batteries.
- Avoid exposing batteries to extreme temperatures.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not installed correctly.	Charge the drone battery fully. Ensure the battery is inserted correctly and clicked into place.
Controller does not connect to drone.	Controller batteries are low or not installed. Pairing failed.	Replace controller batteries. Ensure both drone and controller are powered on and attempt to re-pair according to the quick start guide.
Drone drifts during flight.	Calibration issue. Wind interference.	Perform a gyroscope calibration (refer to quick start guide for specific steps). Fly in calmer conditions.
No live video feed in app.	Wi-Fi not connected. App not open or crashed.	Ensure your phone is connected to the drone's Wi-Fi network. Restart the app and drone.
Short flight time.	Battery not fully charged. Old battery. Aggressive flying.	Ensure battery is fully charged. Consider purchasing a new battery if performance degrades significantly. Fly more conservatively.

SPECIFICATIONS

Brand	Toladrone
Model	TD12Pro
Camera	4K HD, 90° Electrically Adjustable
Motor Type	Brushless
Wind Resistance	Level 3
Positioning System	Optical Flow Positioning
Battery Capacity	1600 Milliamp Hours (Lithium Polymer)
Flight Time	Approximately 15 minutes (per battery)
Product Dimensions	7.1"L x 6.3"W x 2.4"H

WARRANTY AND SUPPORT

Warranty Information

Toladrone products typically come with a standard manufacturer's warranty covering defects in materials and workmanship. Please refer to the warranty card included in your package or visit the official Toladrone website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

Customer Support

For any questions, technical assistance, or support regarding your Toladrone TD12Pro drone, please contact our customer service team. We are dedicated to providing support and assistance for all your drone-related queries and

issues.

- **Online Support:** Visit the [Toladrone Store on Amazon](#) for FAQs and contact options.
- **Email Support:** Refer to your product packaging or warranty card for the official support email address.

