

Toladrone TD12Pro

Toladrone TD12Pro Brushless Motor Drone User Manual

Model: TD12Pro

1. INTRODUCTION

Thank you for choosing the Toladrone TD12Pro Brushless Motor Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the device to ensure proper use and to prevent damage or injury. Keep this manual for future reference.

2. PRODUCT OVERVIEW

2.1 Package Contents

The Toladrone TD12Pro package typically includes the following components:

- 1x TD12Pro Drone
- 1x Remote Control
- 1x Modular Battery
- 1x USB Charging Cable
- 4x Additional Propellers
- 1x Screwdriver
- 1x User Manual (this document)
- 1x Carrying Case



Image 2.1: The Toladron TD12Pro drone, remote control, and included accessories.

2.2 Key Features

- **1080P HD Camera:** Captures clear images and videos with a resolution of 1920x1080.
- **90° Motorized Adjustable Camera:** Adjust the camera angle remotely for diverse aerial photography.
- **Optical Flow Positioning:** Ensures stable hovering and precise flight, suitable for beginners.
- **Dual Camera System:** Includes a main camera and a bottom camera for varied shooting angles.
- **5GHz WiFi FPV Transmission:** Provides clear, real-time image transmission up to 200 meters with minimal delay.
- **Powerful Brushless Motors:** Offers strong performance, smooth flight, reduced noise, and extended motor lifespan.
- **Wind Resistance Level 3:** Maintains stable flight even in moderate wind conditions.
- **Multiple Flight Modes:** Includes Headless Mode, Altitude Hold, One-Key Take-off/Landing, 3 Speed Modes, 360° Flip, and Trajectory Flight.

3. SETUP

3.1 Battery Installation

1. Ensure the drone and remote control are powered off.
2. Insert the fully charged modular battery into the drone's battery compartment until it clicks into place.
3. For the remote control, open the battery cover and insert the required batteries (not specified in input, assume standard AA/AAA or internal rechargeable).



Image 3.1: Illustration of the modular battery being inserted into the drone.

3.2 Propeller Installation

If propellers are not pre-installed or need replacement:

1. Match the propellers to the correct motor arms (usually marked A and B).
2. Securely attach each propeller using the provided screws and screwdriver. Ensure they are firmly in place but do not overtighten.

3.3 Remote Control Pairing

1. Power on the drone, then power on the remote control.
2. The indicator lights on both devices will flash, indicating they are searching for a signal.
3. Push the left joystick up and then down. The indicator lights will become solid, confirming successful pairing.

3.4 App Connection (5G FPV)

1. Download the designated drone application from your smartphone's app store (refer to the QR code in the manual or product packaging).
2. Turn on the drone and your smartphone's Wi-Fi.
3. Connect your smartphone to the drone's Wi-Fi network (e.g., "TD12Pro-XXXX").
4. Open the drone application. You should see the live FPV feed from the drone's camera.



Jede Szene

5G-Signal

5G

5G-Echtzeit-Übertragung

Mit einer Übertragungsreichweite von 200 m und einer Flughöhe von 100 m kann die Drohne höher und weiter fliegen.

Image 3.2: A smartphone mounted on the remote control displaying the 5G FPV feed.

4. OPERATING INSTRUCTIONS

4.1 Pre-Flight Checklist

- Ensure batteries in both drone and remote control are fully charged.
- Check that propellers are securely attached and undamaged.
- Verify that the drone and remote control are successfully paired.
- Ensure the flying area is clear of obstacles and people.
- Perform compass calibration if required by the app or environment.

4.2 Take-off and Landing

- **One-Key Take-off:** Press the one-key take-off button on the remote control. The drone will automatically ascend to a certain altitude and hover.
- **Manual Take-off:** Push both joysticks diagonally outwards and downwards to start the motors. Then, gently push the left joystick up to ascend.

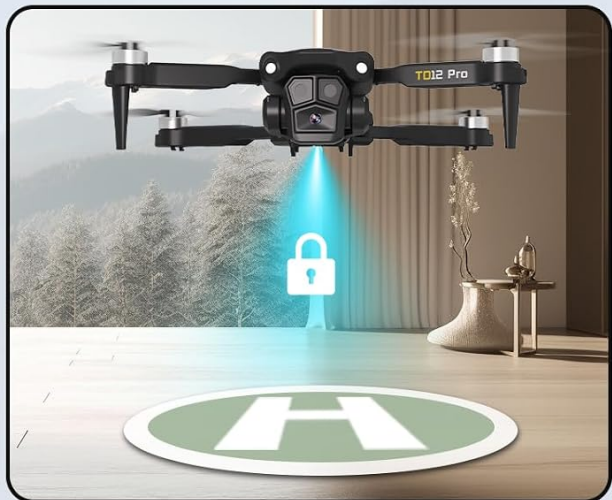
- **One-Key Landing:** Press the one-key landing button. The drone will automatically descend and land.
- **Manual Landing:** Gently pull the left joystick down to descend. Once landed, pull both joysticks diagonally outwards and downwards to stop the motors.



Leicht zu steuern

Anfänger und Kinder können die Drohne leicht manövrierern.

Kopflöser Modus



Start/Landung mit einer Taste

Halten der Flughöhe

Image 4.1: Visual representation of one-key take-off and landing functions.

4.3 Flight Controls

- **Left Joystick:** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.
- **Altitude Hold:** The drone maintains its current altitude automatically, allowing for easier control of horizontal movement.
- **Headless Mode:** In this mode, the drone's orientation is irrelevant. It will move according to the remote control's direction relative to the pilot, simplifying control for beginners.

4.4 Camera Operation

- **Photo/Video:** Use the dedicated buttons on the remote control or within the app to capture photos or start/stop video recording.

- **90° Motorized Adjustment:** Use the designated button on the remote control to adjust the camera's vertical angle during flight.



Image 4.2: The drone's 1080P camera and its 90-degree motorized adjustment capability.

5. ADVANCED FEATURES

5.1 Speed Modes

The TD12Pro offers three speed settings (low, medium, high) to suit different flying environments and pilot skill levels. Press the speed switch button on the remote control to cycle through the modes.

5.2 360° Flip

To perform a 360° flip, fly the drone to a sufficient height (at least 3 meters). Press the 360° flip button on the remote control, then push the right joystick in the desired direction of the flip.

5.3 Trajectory Flight

Activate Trajectory Flight mode in the app. Draw a desired flight path on your smartphone screen, and the drone will automatically follow the specified route.

Mehrere Funktionen

3 Geschwindigkeiten

Stellen Sie je nach Flugumgebung eine niedrige, mittlere und hohe Geschwindigkeit für die Drohne ein.



360°-Flip

Die Drohne kann um 360° in jede beliebige Richtung gedreht werden - für unbegrenzten Spaß.



Trajektorienflug

Zeichnen Sie eine Flugbahn auf dem Bildschirm Ihres Telefons, und die Drohne fliegt entlang der angegebenen Bahn.

Image 5.1: Depiction of the drone's 360-degree flip and trajectory flight features.

6. MAINTENANCE

6.1 Battery Care

- Always use the original charging cable.
- Do not overcharge or over-discharge the battery.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- If the drone will not be used for an extended period, charge the battery to approximately 50% before storage.

6.2 Propeller Inspection and Replacement

- Regularly inspect propellers for cracks, bends, or other damage.
- Replace any damaged propellers immediately to ensure safe and stable flight.

- Ensure correct propeller type (A or B) is installed on the corresponding motor.

6.3 Cleaning

- Use a soft, dry cloth to clean the drone body and camera lens.
- Avoid using harsh chemicals or solvents.
- Ensure no dust or debris obstructs the motors or sensors.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on	Low battery; Battery not installed correctly	Charge battery; Reinstall battery securely
Remote control not connecting	Not paired; Low remote battery	Perform pairing steps again; Replace/charge remote batteries
Unstable flight / Drifting	Improper calibration; Damaged propellers; Strong wind	Recalibrate drone; Replace damaged propellers; Fly in calmer conditions
No FPV feed in app	Wi-Fi not connected; Incorrect app; App compatibility issue	Ensure phone is connected to drone's Wi-Fi; Verify correct app version; Check app compatibility with your device (e.g., some users reported issues with iPhone app availability)
Short flight time	Battery not fully charged; Old battery; Aggressive flying	Fully charge battery; Consider purchasing a new battery; Fly more conservatively

8. SPECIFICATIONS

Feature	Specification
Model Name	TD12Pro
Brand	Toladrone
Product Weight	140 g
Product Dimensions	18 x 16 x 6 cm
Battery Type	Lithium Polymer (1 required, included)
Battery Capacity	1600 mAh
Video Capture Resolution	1080p
Effective Still Image Resolution	2.07 MP

Feature	Specification
Connectivity Technology	Wi-Fi (5GHz)
Control Method	Remote Control, Gesture Control
Skill Level	Beginner
Wind Resistance Level	3

9. SAFETY GUIDELINES

- Always operate the drone in open areas, away from people, animals, buildings, and power lines.
- Do not fly the drone in strong winds, rain, or other adverse weather conditions.
- Maintain a safe distance from the drone during operation.
- Never fly the drone near airports or restricted airspace.
- Ensure all local regulations and laws regarding drone operation are followed.
- Keep fingers and loose clothing away from rotating propellers.
- Supervise children when they are operating the drone.

10. WARRANTY AND SUPPORT

Toladrone is committed to providing high-quality products and excellent customer service. If you encounter any issues or have questions regarding your TD12Pro drone, please do not hesitate to contact our support team. Our customer service team is dedicated to providing prompt and friendly assistance to ensure you enjoy your drone flying experience to the fullest.

Contact Support: Toladrone_support@163.com

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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