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### Toladrone TL16

# Toladrone TL16 Drone User Manual

MODEL: TL16 FIRST EDITION

## Introduction

This manual provides essential information for operating and maintaining your Toladrone TL16 Brushless Motor Drone. Designed for both beginners and experienced users, the TL16 offers advanced features for stable flight and high-quality aerial photography. Please read this manual thoroughly before your first flight to ensure safe and optimal performance.

## What's in the Box

Your Toladrone TL16 package includes the following components:

- 1x Toladrone TL16 Drone
- 1x Remote Control
- 1x Modular Battery (1800mAh)
- 4x Spare Propellers
- 1x USB Charging Cable
- 1x Screwdriver
- 1x Carrying Case
- 1x User Manual (this document)




Figure 1: The Toladrone TL16 drone in flight configuration, its remote control with a smartphone holder, and the drone folded for transport. This image illustrates the main components included in the package.

## Product Features

### 1080P Camera with 90° Motorized Adjustable Lens

The TL16 drone is equipped with a 1080P high-definition camera, capable of capturing clear photos and videos. The lens can be adjusted vertically by 90 degrees via the remote control, allowing for flexible framing of your shots. Wi-Fi FPV (First Person View) real-time transmission enables live viewing of footage directly on your smartphone.




Figure 2: Close-up view of the drone's 1080 HD camera, highlighting its dual camera capability and motorized adjustment feature for versatile aerial photography.

## Brushless Motors & Wind Resistance

Featuring quiet brushless motors, the TL16 ensures smoother flight performance and extended motor lifespan. These motors provide strong power and lower noise during operation. The drone is designed with Level 3 wind resistance, offering enhanced stability for outdoor flights even in breezy conditions.




Figure 3: The TL16 drone in flight, illustrating its capability to withstand Level 3 wind resistance due to its powerful brushless motors, ensuring stable outdoor performance.




Figure 4: A detailed view of the drone's brushless motor, emphasizing its attributes of lower noise and powerful force for efficient flight.

### Multiple Speed Modes & 360° Flips

The TL16 offers 3 customizable speed modes (Low/Medium/High), catering to various skill levels from beginners to more advanced pilots. For added fun and impressive aerial maneuvers, the drone can perform jaw-dropping 360° flips with a single command.




Figure 5: An illustration depicting the drone's three distinct speed modes, allowing users to adjust flight speed according to their skill level or desired maneuverability.




Figure 6: The drone executing a 360° flip, demonstrating its acrobatic capability and ease of performing complex aerial maneuvers.

## Optical Flow Positioning & Headless Mode

Optical flow positioning ensures precise hovering and altitude hold, providing stable flight even indoors. Features like one-key takeoff/landing and headless mode simplify operation, making the TL16 particularly user-friendly for beginners.

## Modular Battery

The drone utilizes a modular 1800mAh Lithium Polymer battery, offering approximately 16 minutes of flight time per charge. The modular design allows for convenient and safer battery handling and replacement.




Figure 7: The modular battery unit displayed alongside the drone, indicating its 1800mAh capacity and approximately 16 minutes of flight time.

## Setup Guide

1. **Charge the Battery:** Connect the modular battery to the USB charging cable and plug it into a 5V/1A USB adapter. The charging indicator will show progress and turn off when fully charged (approx. 90 minutes).
2. **Install Battery:** Insert the fully charged modular battery into the drone's battery compartment until it clicks securely into place.
3. **Unfold the Drone:** Gently unfold the drone's arms until they are fully extended and locked into position.
4. **Prepare Remote Control:** Install 3x AA batteries (not included) into the remote control. Extend the phone holder if you plan to use a smartphone for FPV.
5. **Power On:**

- Press and hold the power button on the drone until the indicator lights turn on.
- Press the power button on the remote control. The remote will beep, and the drone's lights will flash, indicating pairing.

6. **Calibrate Gyroscope:** Place the drone on a flat, level surface. Push both joysticks on the remote control down and to the right simultaneously. The drone's lights will flash rapidly and then become solid, indicating successful calibration.
7. **Connect to App (Optional):** Download the "Toladrone FPV" app from your smartphone's app store. Connect your phone to the drone's Wi-Fi network (usually named "TL16-XXXXXX"). Open the app to view the live camera feed and access additional flight features.

## Operating Instructions

### Basic Flight Controls

The TL16 drone can be controlled via the included remote control or through the smartphone app. Ensure the drone and remote are paired before attempting flight.

**One-Key Takeoff/Landing:** Press the one-key takeoff/landing button on the remote control (often indicated by an arrow pointing up/down). The drone will automatically ascend to a stable hovering altitude or descend gently for landing.

**Altitude Hold:** The optical flow positioning system maintains the drone's altitude automatically, allowing for stable hovering.

**Left Joystick:**

- Push up/down: Controls altitude (ascend/descend).
- Push left/right: Controls yaw (rotate left/right).

**Right Joystick:**

- Push up/down: Controls forward/backward movement.
- Push left/right: Controls left/right sideward movement.

**Trim Adjustment:** If the drone drifts in any direction during hover, use the trim buttons on the remote control to fine-tune its stability.

### Advanced Features

**Speed Modes:** Press the speed mode button (often indicated by a fan icon) to cycle through Low, Medium, and High speeds. Start with Low speed for beginners.

**360° Flip:** While flying, press the 360° flip button (often indicated by a circular arrow) and then push the right joystick in the desired direction to perform an acrobatic flip.

**Headless Mode:** Activate headless mode by pressing its dedicated button. In this mode, the drone's orientation is relative to the pilot, making it easier to control without worrying about the drone's front or back.

**Trajectory Flight (App Only):** In the app, draw a desired flight path on your screen, and the drone will automatically follow the customized route.

**Gravity Control (App Only):** Enable gravity control in the app, then tilt your smartphone to control the drone's movement, providing an intuitive flying experience.

**Gesture Control (App Only):** Use specific hand gestures in front of the camera to trigger photo or video recording. Refer to the app's instructions for specific gestures.

## Maintenance

- **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.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided screwdriver and spare parts. Ensure propellers are installed correctly (A and B types).
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or solvents.
- **Storage:** When not in use for extended periods, remove the battery from the drone and remote control. Store the drone in its carrying case to protect it from dust and physical damage.

## Troubleshooting

| Problem | Possible Cause | Solution |
|---|---|---|
| Drone does not respond to remote control. | Not paired; low battery on drone or remote. | Ensure drone and remote are powered on and paired correctly. Charge batteries. |
| Drone drifts during flight. | Gyroscope not calibrated; uneven surface during calibration; wind interference. | Recalibrate gyroscope on a flat surface. Use trim adjustments. Avoid strong winds. |
| Camera feed is blurry or distorted. | Lens is dirty; Wi-Fi interference; poor lighting. | Clean the camera lens. Ensure strong Wi-Fi signal. Fly in well-lit conditions. |
| Short flight time. | Battery not fully charged; old battery; aggressive flying. | Ensure battery is fully charged. Consider replacing old batteries. Fly more gently. |

## Specifications

**Brand:**
Toladrone
**Model Name:**
TL16
**Dimensions (Unfolded):**
8.6"L x 7.1"W x 2.3"H
**Item Weight:**
1.5 pounds
**Material:**
Plastic
**Camera Resolution:**
1080p
**Adjustable Lens:**
90° Motorized

**Motor Type:**
Brushless Motor
**Battery Type:**
1800mAh Lithium Polymer
**Flight Time:**
Approx. 16 minutes
**Control Type:**
Remote Control, App Control
**Connectivity:**
Wi-Fi
**Special Features:**
360° Flip, Speed Adjustment, Optical Flow Positioning, Headless Mode, One-Key Takeoff/Landing, Trajectory Flight, Gravity Sensing, Gesture Control

## Warranty and Support

Toladrone is committed to providing professional help and guidance. If you encounter any problems during the use of your TL16 drone, please do not hesitate to contact our technical support team.
**Contact Support:**

Email: Toladrone_support@163.com

For additional support and FAQs, please visit the official Toladrone store on Amazon:Toladrone Store

Please retain your proof of purchase for warranty claims. The warranty period and terms are subject to the policies of the retailer and manufacturer at the time of purchase.

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