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Toladrome TD12LCD

Toladrome TD12LCD Drone User Manual

Model: TD12LCD

1. INTRODUCTION

This manual provides comprehensive instructions for the safe operation, maintenance, and troubleshooting of your Toladrome TD12LCD Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.

The Toladrome TD12LCD is a foldable RC drone equipped with a camera, LCD screen remote control, and brushless motors. It features optical flow positioning for stable flight and is designed for both beginners and experienced users.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1x Toladrome TD12LCD Drone
- 1x Remote Control with LCD Screen
- 1x Modular Battery (3.7V 1800mAh)
- 1x Screwdriver
- 1x Carrying Case
- 1x Instruction Manual (this document)
- 1x Charging Cable
- 4x Propellers (spare)
- 4x Propeller Guards

Brushless Motor

Equipped with 4 powerful brushless motors that can reach a maximum speed of 10,000 rpm. High performance to ensure a smooth flight.



Image showing the Toladrone TD12LCD drone, remote control, carrying case, modular battery, screwdriver, charging cable, spare propellers, and propeller guards included in the package.

3. SAFETY GUIDELINES

Adhere to the following safety precautions to ensure safe operation and prevent damage or injury:

- Operate the drone in open areas, away from people, animals, and obstacles.
- Do not fly near airports, restricted airspace, or sensitive areas.
- Maintain a visual line of sight with the drone at all times.
- Avoid flying in strong winds or adverse weather conditions.
- Ensure batteries are fully charged and properly installed before each flight.
- Keep fingers and loose clothing away from rotating propellers.
- Do not modify the drone or its components.
- Supervise children during drone operation.

4. COMPONENTS OVERVIEW

4.1 Drone



The Toladrome TD12LCD drone, featuring foldable arms, camera, and LED lights.

- **Brushless Motors:** Provide powerful and stable flight.
- **Foldable Arms:** For compact storage and portability.
- **90° Motorized Adjustable Camera:** Captures photos and videos from various angles.
- **Optical Flow Positioning Sensor:** Enhances low-altitude flight stability.
- **LED Lights:** Indicate drone status and aid visibility.
- **Modular Battery Compartment:** Houses the removable 3.7V 1800mAh battery.

4.2 Remote Control

Real-time Image Transmission

Store All Wonderful Aerial Photos & Videos



The remote control for the Toladrome TD12LCD drone, featuring an integrated LCD screen for real-time image transmission.

The remote control features an integrated LCD screen for real-time image transmission and various control buttons.



Detailed diagram of the remote control buttons and their functions.

1. **Speed Control Keys:** Adjust flight speed (low/medium/high).
2. **3D Flip:** Initiates a 360-degree flip maneuver.
3. **Take Photo:** Captures a still image.
4. **Take Video:** Starts/stops video recording.

5. **Camera Up:** Adjusts camera angle upwards.
6. **Camera Down:** Adjusts camera angle downwards.
7. **One-touch Calibration/Headless Mode:** Calibrates the drone or activates headless mode.
8. **Power Switch:** Turns the remote control on/off.
9. **Short press to take off/land:** Initiates one-key take-off or landing.
10. **Short press to record photo/long press to view recorded photo:** Controls photo capture and playback.
11. **Short press to record video/long press to view recorded video:** Controls video recording and playback.
12. **View next file:** Navigates to the next media file on the LCD screen.
13. **Display switch:** Toggles display modes on the LCD screen.
14. **View previous file:** Navigates to the previous media file on the LCD screen.
15. **Short press to play/Long press to return to main interface:** Controls media playback and menu navigation.

5. SETUP

5.1 Battery Installation and Charging

- **Drone Battery:** Insert the modular battery into the drone's battery compartment until it clicks into place. To charge, remove the battery and connect it to the charging cable. Connect the charging cable to a USB power source. The charging indicator will show charging status.
- **Remote Control Battery:** The remote control has an internal rechargeable battery. Connect the remote control to a USB power source using the provided charging cable.

Ensure both batteries are fully charged before first use. A full charge provides approximately 20 minutes of flight time for the drone.

5.2 Propeller Installation

Attach the propellers to the motor shafts. Ensure each propeller is correctly oriented (A or B) according to the markings on the drone arms and propellers. Secure them with the provided screws using the screwdriver.

5.3 Propeller Guard Installation

Attach the propeller guards to the drone arms for added protection, especially for beginners.

5.4 SD Card Installation (Optional)

The drone supports an SD card up to 32GB for storing photos and videos. Insert the SD card into the designated slot on the remote control until it clicks. Ensure the card is inserted in the correct orientation.



Image illustrating the SD card slot on the remote control for storing media.

6. OPERATING INSTRUCTIONS

6.1 Power On/Off

- **Drone:** Press and hold the power button on the drone until the LED lights illuminate.
- **Remote Control:** Press and hold the power button on the remote control until the LCD screen turns on.

6.2 Pairing the Drone and Remote Control

1. Place the drone on a flat, level surface.
2. Power on the drone, then power on the remote control.
3. 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.

6.3 Calibration

After pairing, perform a gyroscope calibration. Press the "One-touch Calibration" button (usually indicated by a compass icon) on the remote control. The drone's lights will flash rapidly and then become solid, indicating successful calibration.

6.4 Take-off and Landing

- **One-Key Take-off:** Press the one-key take-off/landing button (usually indicated by an arrow pointing up) on the remote control. The drone will automatically ascend to a stable hovering altitude.
- **Manual Take-off:** Push both joysticks down and outwards simultaneously to start the motors. Then, slowly push the left joystick up to ascend.
- **One-Key Landing:** Press the one-key take-off/landing button again. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left joystick down to descend. Once landed, push both joysticks down and inwards to stop the motors.



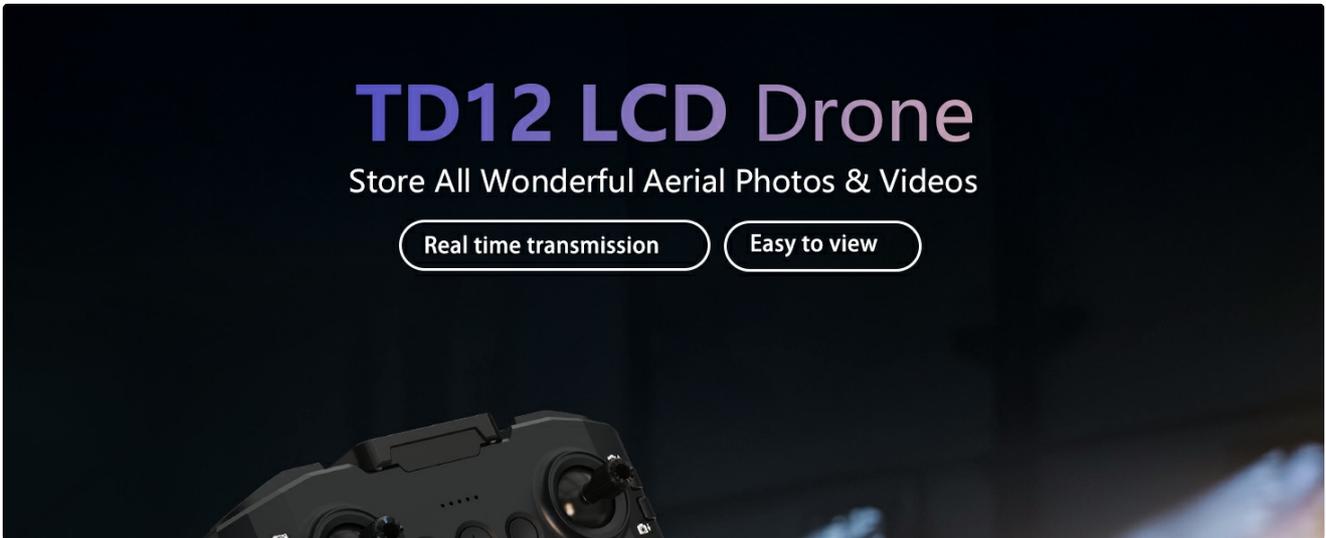
Illustration of the one-touch take-off and landing feature.

6.5 Flight Controls

- **Left Joystick:**
 - Up/Down: Ascend/Descend
 - Left/Right: Rotate Left/Right (Yaw)
- **Right Joystick:**
 - Up/Down: Forward/Backward (Pitch)
 - Left/Right: Fly Left/Right (Roll)
- **Speed Modes:** Use the Speed Control Keys to switch between low, medium, and high-speed modes.
- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is irrelevant; it will move relative to the pilot's position. Press again to exit.
- **Altitude Hold:** The drone automatically maintains its current altitude, allowing for stable hovering.
- **360° Flip:** Press the 3D Flip button and then move the right joystick in the desired direction to perform a flip.

6.6 Camera Operation

- **Take Photo:** Short press the "Take Photo" button on the remote control.
- **Record Video:** Short press the "Take Video" button to start recording. Short press again to stop.
- **Adjust Camera Angle:** Use the "Camera Up" and "Camera Down" buttons to adjust the camera's vertical angle.
- **View Media:** Long press the "View Recorded Photo" or "View Recorded Video" buttons to access stored media on the LCD screen. Use "View next file" and "View previous file" to navigate.



The remote control's LCD screen displaying real-time image transmission from the drone's camera.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Do not use liquids or solvents.
- **Propeller Inspection:** Regularly check propellers for damage (cracks, bends). Replace damaged propellers immediately.
- **Battery Care:**
 - Store batteries in a cool, dry place.
 - Do not overcharge or over-discharge batteries.
 - If storing for extended periods, charge batteries to approximately 50% capacity.
- **Storage:** When not in use, store the drone and its accessories in the provided carrying case to protect them from dust and damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drone does not respond to remote control.	Not paired or low battery.	Ensure drone and remote are powered on and paired correctly. Charge batteries.
Drone drifts during flight.	Not calibrated or strong wind.	Perform gyroscope calibration. Avoid flying in windy conditions.
Poor image/video quality or no transmission.	Interference, distance, or SD card issue.	Fly closer to the drone. Check SD card for proper insertion and format. Avoid areas with strong signal interference.
Short flight time.	Battery not fully charged or aged battery.	Ensure battery is fully charged. Consider replacing old batteries.
Motors do not spin.	Drone not armed or propeller obstruction.	Ensure drone is paired and calibrated. Check for any obstructions to propellers.

9. SPECIFICATIONS

Feature	Detail
Model	TD12LCD
Brand	Toladrone
Dimensions (Unfolded)	7.1"L x 6.3"W x 2.4"H
Item Weight	0.63 Kilograms (1.39 pounds)
Motor Type	Brushless
Drone Battery	3.7V 1800mAh Lithium Polymer (Modular)
Flight Time	Approximately 20 minutes
Remote Control	Integrated LCD Screen for Real-time FPV
Camera	90° Motorized Adjustable Camera
Positioning System	Optical Flow Positioning
SD Card Support	Up to 32GB
Special Features	360 Degree Flip, Lightweight, Speed Adjustment, Headless Mode, One-Key Take-off/Landing, Altitude Hold, Level 3 Wind Resistance

10. CUSTOMER SUPPORT

For any issues, questions, or technical assistance regarding your Toladrone TD12LCD Drone, please contact our customer service team.

Email: Toladrone_support@163.com

Our professional technicians are available to provide guidance and support.



Image of a customer support representative, symbolizing available assistance.