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## TTROARDS TT19LS

# TTROARDS TT19 Foldable 1080P Drone Instruction Manual

Model: TT19LS

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your TTROARDS TT19 Foldable 1080P Drone. Please read it thoroughly before first use and retain it for future reference. The TT19 drone features a 1080P HD camera, 270° obstacle avoidance, brushless motors, optical flow positioning, and a foldable design for portability.



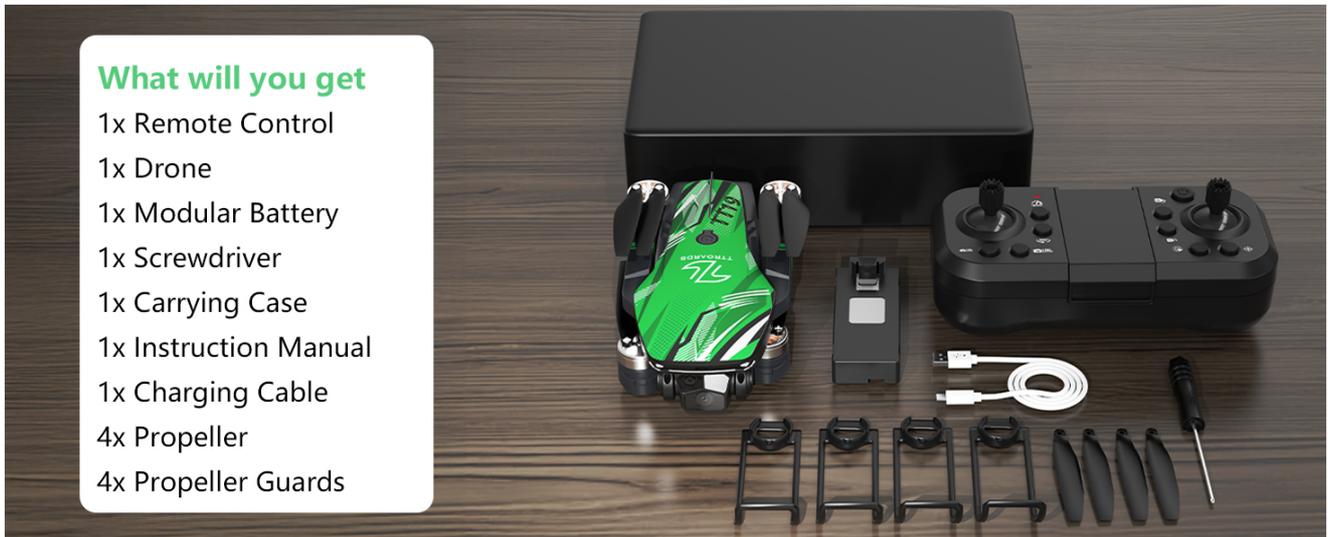
Image: The TTROARDS TT19 drone, highlighting its user-friendly design.

## 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 TTROARDS TT19 Drone

- 1x Remote Control
- 1x Modular Battery (1200mAh)
- 1x Screwdriver
- 1x Carrying Case
- 1x Instruction Manual
- 1x Charging Cable (USB-C)
- 4x Spare Propellers
- 4x Propeller Guards



### What will you get

- 1x Remote Control
- 1x Drone
- 1x Modular Battery
- 1x Screwdriver
- 1x Carrying Case
- 1x Instruction Manual
- 1x Charging Cable
- 4x Propeller
- 4x Propeller Guards

Image: All components included in the TT19 drone package.

## 3. SETUP

### 3.1 Battery Charging and Installation

The drone is powered by a 1200mAh modular Lithium Polymer battery.

1. Connect the provided USB-C charging cable to the battery and a suitable USB power adapter (not included).
2. The battery indicator will show charging status. Ensure the battery is fully charged before each flight (approximately 15 minutes flight time per charge).
3. Insert the charged modular battery into the drone's battery compartment until it clicks securely into place.

# Modular Battery

Bring a more convenient and safer flight experience

3.7V Lithium Voltage

1200mAh Battery Capacity

Image: The modular battery and its 15-minute flight duration.

## 3.2 Propeller Guard Installation

For enhanced safety, especially for beginners or indoor flights, install the propeller guards.

1. Gently attach each propeller guard to the corresponding arm of the drone.
2. Ensure they are securely fastened to prevent detachment during flight.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing, assembly, and initial setup of the TT19 drone, including propeller guard installation and battery insertion.

## 3.3 Remote Control and App Connection

The drone can be controlled via the remote control or a smartphone app.

1. **Remote Control:** Insert 3x AAA batteries (not included) into the remote control.
2. **App Download:** Scan the QR code in the printed manual or search for the designated app (e.g., "Feilindga" or similar, as seen in video) on your smartphone's app store (iOS/Android).
3. **Wi-Fi Connection:**
  - Power on the drone.
  - On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., "Drone-4C05FA").
  - Open the drone control app. The app should display the drone's camera feed, indicating a successful connection.

Your browser does not support the video tag.

Video: This video demonstrates the unboxing, assembly, and initial setup of the TT19 drone, including app connection and remote control pairing.

# 4. OPERATING INSTRUCTIONS

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## 4.1 Basic Flight Controls

Familiarize yourself with the remote control or app interface before attempting flight.

- **One-Key Take-off/Landing:** Press the designated button on the remote or app for automatic take-off or landing.
- **Altitude Hold:** The drone maintains a stable altitude, simplifying control for steady shots.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, making it easier to control without needing to know the drone's front direction.
- **360° Flip:** Press the 360° flip button and move the right joystick in the desired direction to perform an aerial flip.

## 360° Flip

The drone comes with a 360° flip stunt function, just press the button on the remote control and then gently push the joystick, the drone can instantly complete a cool flip action, you can also shoot while flipping, easy to capture the unique images under the rotating perspective.



Image: The TT19 drone executing a 360° flip.

## 4.2 Speed Modes

The TT19 drone offers three speed modes (low, medium, high) to suit different skill levels and flight environments. Adjust the speed using the dedicated button on the remote control.

## 3 Speed Modes

Three speed modes are convenient for flexible switching in different scenarios. Whether you are a beginner who is careful with the controls, or a player who wants to capture exciting moments, the drone can meet the needs, so that you can find the most suitable flight rhythm for you.



Image: Visual representation of the drone operating in three distinct speed modes.

## 4.3 Obstacle Avoidance

The drone is equipped with a 270° obstacle detection sensor to reduce the risk of collisions. This feature is particularly useful for beginners and for flying in environments with potential obstacles.

## 270° Obstacle Avoidance

The drone is equipped with a 270° obstacle avoidance function, which effectively reduces the risk of hitting obstacles when handling the drone, better protects the drone and its environment, and provides favourable assistance for beginners.



Image: The drone's 270° obstacle avoidance system in action.

## 4.4 Optical Flow Positioning

Advanced optical flow sensors enable precise hovering indoors or outdoors, contributing to stable flight and easier control for aerial photography.

## 4.5 Camera Operation

The drone features a 1080P HD camera with 90° motorized adjustment.

- **Adjusting Camera Angle:** Use the dedicated controls on the remote or app to adjust the camera's vertical angle (90° motorized adjustment).
- **Photo/Video Capture:** Press the photo or video button on the remote or app to capture images or start/stop recording.
- **FPV Real-time Transmission:** The drone transmits live video feed to your smartphone via Wi-Fi, allowing for real-time viewing and sharing.



Image: The 1080P HD camera of the TT19 drone, showcasing its capabilities.

## 4.6 App-Controlled Functions

Utilize the smartphone app for additional flight modes:

- **Gravity Sensing:** Control the drone's movement by tilting your smartphone.
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will follow the customized

route.



## Trajectory Flight

Draw an flight path for the drone on the app and the drone will follow the customised route.

Image: The drone executing a trajectory flight based on app input.



## Gravity Control

Swing your phone and the drone will follow the swinging direction, providing more ways to play.

Image: Gravity control feature being used to maneuver the drone.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drone.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals.
- **Propellers:** Inspect propellers for damage before each flight. Replace any bent or broken propellers using the provided screwdriver and spare parts.
- **Battery Care:**
  - Do not overcharge or over-discharge the battery.
  - Store batteries in a cool, dry place away from direct sunlight.
  - If the drone will not be used for an extended period, charge the battery to about 50% before storage.
  - Low-voltage alerts will notify you when the battery needs recharging to prevent unexpected crashes.
- **Brushless Motors:** The brushless motors are designed for durability and low maintenance. Keep them free from dust and debris.



## 6. TROUBLESHOOTING

If you encounter issues with your TTROARDS TT19 drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or improperly installed.	Ensure the modular battery is fully charged and securely inserted into the drone.
Drone loses connection or flies erratically.	Out of range, Wi-Fi interference, or low battery.	Fly within the recommended range. Avoid areas with strong Wi-Fi signals. Check drone and remote battery levels.
Poor camera quality.	Low light conditions, camera lens dirty, or drone movement.	Ensure adequate lighting. Clean the camera lens. Fly in Altitude Hold mode for steadier shots.
Drone drifts during flight.	Uncalibrated sensors or wind interference.	Perform a gyroscope calibration. Fly in calm conditions, especially if wind resistance is exceeded.

## 7. SPECIFICATIONS

Feature	Detail
Brand	TTROARDS
Model Name	RM (TT19LS)
Color	Green
Video Capture Resolution	1080p
Connectivity Technology	Wi-Fi
Item Weight	430 Grams (15.2 ounces)
Battery Capacity	1200 Milliamp Hours (Lithium Polymer)
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Control Type	Remote Control, App Control
Wind Resistance Level	Level 3
Optical Sensor Technology	Optical Flow
Product Dimensions	8.6"L x 6.3"W x 2.8"H

## 8. CUSTOMER SUPPORT

For any questions, concerns, or issues regarding your TTROARDS TT19 drone, please contact our customer

support team. We are committed to providing full support from take-off to landing.

**Email:** [TTROAR\\_support@163.com](mailto:TTROAR_support@163.com)



Image: TTROARDS customer support team ready to assist.