

TTROARDS TT19

TTROARDS TT19 Drone User Manual

1. INTRODUCTION

This manual provides essential instructions for the safe operation, setup, and maintenance of your TTROARDS TT19 Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x TT19 Drone
- 1x Remote Control
- 2x Modular Batteries (1 pre-installed, 1 spare)
- 1x USB Charging Cable
- 4x Spare Propellers
- 4x Propeller Guards
- 1x Screwdriver
- 1x User Manual
- 1x Carrying Case

Modular Battery

Bring a more convenient and safer flight experience



Figure 2.1: All included components of the TTRoads TT19 Drone package.

3. PRODUCT FEATURES

- **1080P Camera & 90° Adjustable**

The drone features a 1080P camera with a motorized 90° tilt function, allowing flexible adjustment of shooting angles from upward to downward. This enables capturing diverse aerial footage with ease.



Figure 3.1: Detail of the 1080P camera with 90° adjustable angle.

- **Optical Flow Positioning & Altitude Hold**

Equipped with an advanced optical flow sensor, the drone achieves centimeter-level hovering accuracy. When Altitude Hold mode is active, the drone stabilizes at its current height, minimizing drift and jitter for smooth footage and simplified control.

What are the benefits of a brushless motor?

		
lower noise	powerful force	sustained use

Figure 3.2: Optical Flow Positioning ensures stable hovering.

- **270° Obstacle Avoidance**

The drone's 270° obstacle detection sensors continuously scan the flight path. Upon detecting obstructions, it provides warnings and assists in adjusting the trajectory, significantly reducing collision risks.



Figure 3.3: The drone's 270° obstacle avoidance system in action.

- **Multiple Functions**

Enjoy features like 3D flip stunt maneuvers, gesture-controlled photography, and three speed modes. The remote controller simplifies operation with one-touch takeoff/landing, hover mode, and headless mode.

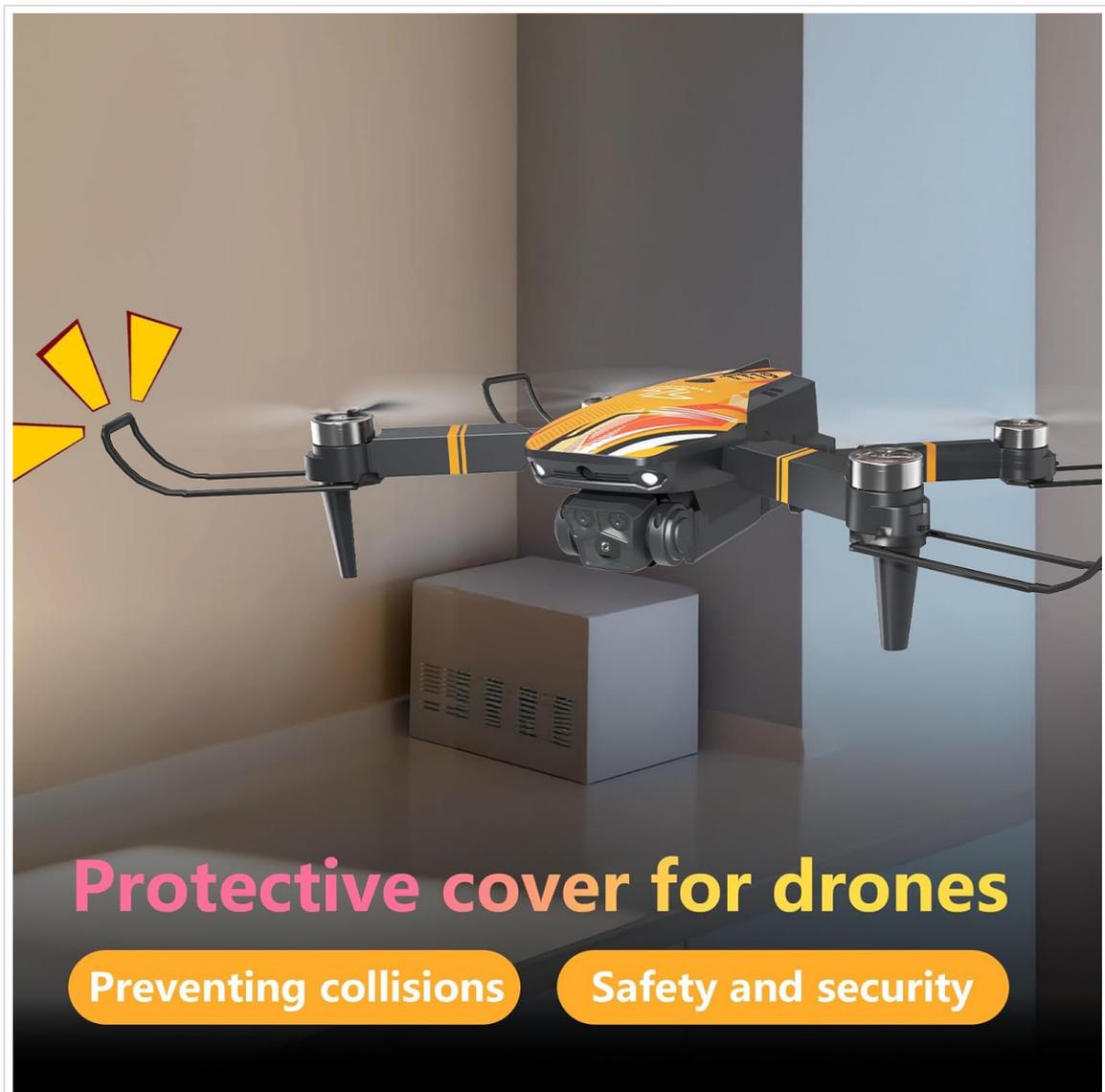


Figure 3.4: Various flight modes and features for enhanced control.



Figure 3.5: The drone executing a 360° flip.

- **Brushless Motor**

Equipped with powerful brushless motors, the drone delivers smoother, quieter flight with enhanced power output. These motors offer extended lifespan and lower failure rates, reducing maintenance.



Figure 3.6: The efficient and durable brushless motor.

- **UV-printed Custom Designs**

The drone's body features UV printing technology for vibrant colors and sharp details. The protective

coating offers scratch and fade resistance, enhancing durability and aesthetics.

4. SETUP

4.1 Drone Assembly

Unfold the drone arms carefully. Attach the propeller guards by snapping them into place if desired for added protection.

4.2 Battery Installation

Insert a charged modular battery into the drone's battery compartment until it clicks securely. For the remote control, open the battery cover and insert 3x AAA batteries (not included) as indicated by the polarity markings.

4.3 Controller Setup

Extend the phone holder on the remote control. Power on the remote control by pressing the power button. Power on the drone by pressing its power button. The drone's lights will flash, indicating it is ready for pairing.

4.4 App Connection

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