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› TizzyToy MT001-pro Brushless Motor Drone User Manual

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TizzyToy MT001-pro Brushless Motor Drone User Manual

Model: MT001-pro | Brand: TizzyToy

1. PRODUCT OVERVIEW

The TizzyToy MT001-pro is a versatile brushless motor drone designed for stable flight and high-quality aerial photography. It features a 4K Ultra HD camera with 90-degree remote adjustability, offering real-time transmission to your connected device. With a control distance of up to 4000 feet and a 40-minute flight time provided by two included batteries, this drone is equipped for extended operation. Advanced features like optical flow positioning, air pressure altitude hold, and indoor obstacle avoidance contribute to a stable and user-friendly flying experience. Various intelligent flight modes, including gesture photography and 360-degree flips, enhance its capabilities.



Figure 1.1: TizzyToy MT001-pro Drone with remote control, batteries, and accessories.

2. WHAT'S IN THE BOX

Your TizzyToy MT001-pro package includes the following items:

- Drone (MT001-pro)
- Remote Control
- Battery (x2)
- Propeller Guard (x4)
- Control Stick (spare)
- Charging Cable (USB-C, x2)
- Spare Propellers
- Screws and Screwdriver
- Storage Bag

3. SETUP GUIDE

3.1 Unfolding the Drone

Gently unfold the drone arms until they lock into place. Ensure all four arms are fully extended before flight.

3.2 Attaching Propeller Guards

For added protection, especially for beginners or indoor flight, attach the propeller guards to each motor arm. Align the guard with the arm and snap it into place securely.

3.3 Battery Installation and Charging

Insert a charged battery into the designated slot on the drone until it clicks. To charge the batteries, use the provided USB-C charging cables. The batteries feature a micro USB port for direct charging. A full charge typically takes approximately 40 minutes per battery.



Figure 3.1: Drone in hand, illustrating its compact folded state and the two included batteries.

3.4 Remote Control Setup

Install 3 AAA batteries (not included) into the remote control. Extend the phone bracket on the remote control to securely mount your smartphone.

3.5 Pairing Drone and Remote

1. Power on the drone by pressing the power button. The drone's lights will flash.
2. Power on the remote control.
3. Wait for the drone's lights to turn solid, indicating successful pairing.

3.6 App Installation and Connection

Scan the QR code in the instruction manual to download the dedicated control app for your smartphone. Connect your smartphone to the drone's Wi-Fi network (usually named after the drone model). The app provides real-time FPV view, access to advanced flight modes, and media capture controls.

4. OPERATING INSTRUCTIONS

4.1 Basic Flight Controls

- **One-Key Takeoff/Landing:** Press the dedicated button on the remote for automatic takeoff or landing.
- **Altitude Hold:** The drone maintains a stable altitude automatically, allowing for easier control.
- **Headless Mode:** The drone's orientation is relative to the pilot, simplifying directional control regardless of the drone's front-facing direction.

4.2 Camera Operation

The 4K Ultra HD camera can be adjusted 90 degrees remotely via the remote control. Use the app for real-time FPV (First Person View) and to capture photos and videos. The app also supports gesture photography for hands-free photo capture.



Figure 4.1: Close-up of the drone's 4K UHD camera, highlighting its 90-degree remote adjustability.

4.3 Advanced Flight Modes

- **360-degree Flip:** Execute aerial stunts with a single button press.
- **Circle Fly:** The drone will automatically fly in a circular path around a designated point.
- **Indoor Obstacle Avoidance:** Utilizes sensors to detect and avoid obstacles during indoor flight.
- **Three-Speed Adjustment:** Select from multiple speed settings to match your skill level and environment.

4.4 Safety Features

- **Beyond-Range Loss Alert:** Notifies you if the drone is flying too far from the remote control.
- **Low Battery Warning:** Alerts you when the battery is running low, prompting you to land.
- **Optical Flow Positioning:** Helps maintain stable flight, especially at lower altitudes (up to 15 meters).

Video 4.1: Demonstration of a foldable drone's features, including unfolding, battery installation, pairing, and basic flight controls. Note: This video features a 1080P camera, while the MT001-pro has a 4K camera.

5. MAINTENANCE

5.1 General Care

Keep the drone clean and free from dust and debris. Store it in the provided storage bag when not in use to prevent damage.

5.2 Propeller Replacement

If a propeller is damaged, replace it immediately using the spare propellers and screwdriver included in the package. Ensure the correct propeller is installed in the correct position (refer to the instruction manual for specific details).

6. TROUBLESHOOTING

- **Drone not pairing:** Ensure both the drone and remote control are fully charged and powered on. Try restarting both devices and repeat the pairing process.
- **Unstable flight:** Calibrate the drone before flight as per the instruction manual. Ensure propellers are not damaged and are correctly installed. Avoid flying in strong winds.
- **No FPV feed:** Check your smartphone's Wi-Fi connection to the drone. Ensure the app is open and has necessary permissions.
- **Short flight time:** Ensure batteries are fully charged. Flight time can be affected by aggressive flying or strong winds.

7. SPECIFICATIONS

Feature	Specification
Brand	TizzyToy
Model Number	MT001-pro
Item Weight	16 ounces (0.45 kg)
Video Output Resolution	4K
Video Capture Format	MP4
Maximum Range	1.21 Kilometers (approx. 4000 feet)
Battery Cell Composition	Lithium Ion
Batteries Included	Yes (2 x 9V batteries)
Remote Control Included	No (Smartphone app control)

8. WARRANTY AND SUPPORT

We offer a variety of in-depth video tutorials that guide you through different drone operation techniques. Our customer service team is available round the clock to assist with your inquiries. For any issues or questions, please contact our customer service or refer to the comprehensive video tutorials provided.

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.

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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