

Tenergy 61338

Tenergy TDR Phoenix Mini RC Quadcopter Drone User Manual

Model: 61338

1. INTRODUCTION

Thank you for purchasing the Tenergy TDR Phoenix Mini RC Quadcopter Drone. This manual provides essential information for the safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the device to ensure proper function and to prevent damage or injury.

2. SAFETY INFORMATION

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.
- Do not fly near airports, restricted airspace, or sensitive areas.
- Maintain a safe distance from the drone during operation.
- Ensure all propellers are securely attached and undamaged before each flight.
- Do not touch the propellers while they are spinning.
- Keep hands, face, and loose clothing away from moving parts.
- Supervise children during drone operation.
- Do not operate the drone in strong winds or adverse weather conditions.
- Avoid flying over water or wet surfaces.
- Only use original Tenergy parts and accessories.
- Do not modify the drone or its components.
- Charge the battery using the provided charger and follow all charging instructions.
- Store the drone and its components in a cool, dry place.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- TDR Phoenix Mini RC Quadcopter Drone

- Remote Control
- HD Camera (integrated)
- Rechargeable Battery
- USB Charging Cable
- Spare Propellers
- Propeller Guards
- Screwdriver
- User Manual (this document)



Image: All components included in the TDR Phoenix Mini RC Quadcopter Drone package.

4. PRODUCT OVERVIEW AND FEATURES

4.1. Auto Hovering

The TDR Phoenix drone features an advanced altitude holding function. This allows the drone to maintain a stable height in mid-air when the pilot releases the throttle joystick, simplifying flight control and making it easier for beginners to manage.



Image: The drone utilizing its auto hovering capability to maintain a steady altitude.

4.2. 720P HD Camera

Equipped with a 720P HD camera, the drone can capture high-definition aerial photos and video footage during flight. An SD card (not included) is required to store the captured media.



Image: The drone in flight, highlighting its integrated 720P HD camera.

4.3. One-Key Stunt Move

Perform exciting 360-degree rolling stunts with ease by pressing a single button on the remote control. This feature adds an engaging element to your flying experience.

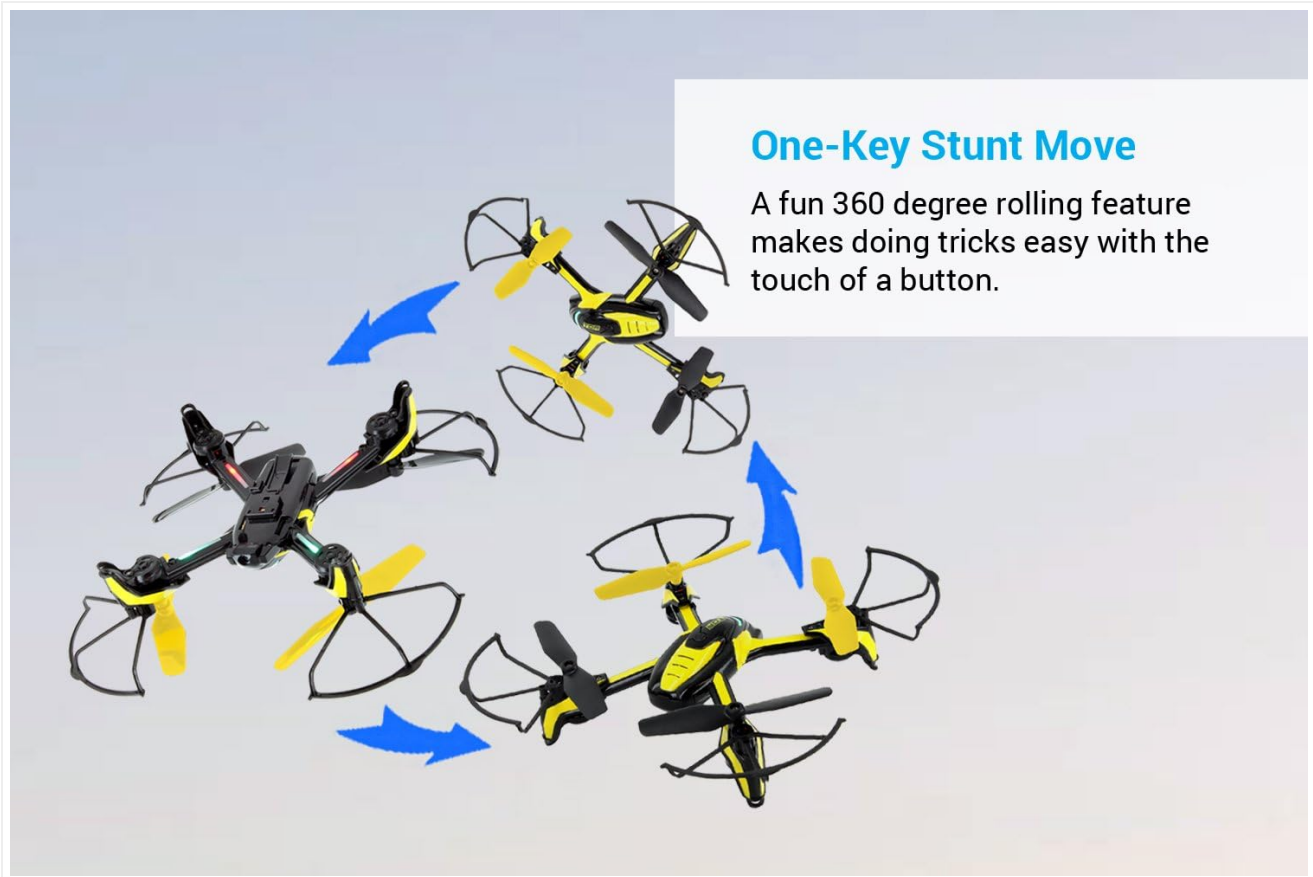


Image: A visual representation of the drone executing a one-key stunt move.

4.4. Modular Battery Design

The drone features a hard-case modular battery design, which protects the battery's internal components and exposed wires, contributing to increased durability and a longer lifespan for the battery.



Modular Battery Design

All new hard case battery design removes the exposed wires for a more durable and long lasting battery.

Image: The drone showcasing its modular battery design, with the battery detached.

5. SETUP

5.1. Charging the Drone Battery

1. Remove the drone battery from the drone.
2. Connect the USB charging cable to the battery.
3. Plug the USB end of the cable into a USB power source (e.g., computer USB port, USB wall adapter).
4. The indicator light on the USB cable will show charging status (refer to charger instructions for specific light behavior).
5. Once fully charged, disconnect the battery from the charger. Do not overcharge.

5.2. Installing the Drone Battery

1. Ensure the drone is powered off.
2. Carefully insert the charged battery into the battery compartment on the drone.
3. Ensure the battery is securely seated and the compartment cover (if any) is closed.

5.3. Installing Propeller Guards

1. Identify the four propeller guards.
2. Attach each guard to the corresponding arm of the drone, ensuring they snap into place securely.
3. Verify that all guards are firmly attached and do not obstruct propeller movement.

5.4. Installing Remote Control Batteries

1. Open the battery compartment on the back of the remote control.

2. Insert the required batteries (typically AA, not included) according to the polarity markings.
3. Close the battery compartment securely.



Image: The remote control for the TDR Phoenix drone, showing its layout.

5.5. SD Card Installation (for Camera)

1. Locate the SD card slot on the drone (usually near the camera module).
2. Gently insert a formatted Micro SD card (up to 32GB, not included) into the slot until it clicks into place.
3. To remove, gently push the card in until it springs out.

6. OPERATING INSTRUCTIONS

6.1. Pairing the Drone and Remote

1. Place the drone on a flat, level surface.
2. Power on the drone. The drone's indicator lights will flash.
3. Power on the remote control.
4. Push the left joystick (throttle) all the way up, then all the way down. The drone's lights will stop flashing and become solid, indicating successful pairing.

6.2. Take-off and Landing

- **One-Key Take-off:** After pairing, press the One-Key Take-off button (refer to remote diagram) to automatically launch the drone to a stable hovering height.

- **Manual Take-off:** After pairing, push both joysticks down and outwards simultaneously to start the propellers. Slowly push the left joystick (throttle) upwards to ascend.
- **One-Key Landing:** Press the One-Key Landing button to automatically land the drone.
- **Manual Landing:** Slowly pull the left joystick (throttle) downwards until the drone lands. Once landed, pull both joysticks down and inwards to stop the propellers.

6.3. Basic Flight Controls

- **Left Joystick (Throttle):** Up/Down for altitude control (ascend/descend). Left/Right for yaw (rotate left/right).
- **Right Joystick (Direction):** Up/Down for pitch (fly forward/backward). Left/Right for roll (fly left/right).

6.4. Advanced Features

- **Auto Hovering:** Release the left joystick (throttle) after ascending, and the drone will maintain its current altitude.
- **One-Key Stunt:** While flying, press the stunt button on the remote control, then push the right joystick in any direction to perform a 360-degree flip.
- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, regardless of the drone's front direction. Press again to exit.

6.5. Camera Operation

- Ensure an SD card is inserted.
- **Take Photo:** Press the Photo button on the remote control. The drone's lights may flash once to indicate a photo has been taken.
- **Record Video:** Press the Video button on the remote control to start recording. Press again to stop recording. The drone's lights may flash continuously during recording.
- To access photos and videos, power off the drone, remove the SD card, and insert it into a computer or card reader.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone. Do not use water or solvents.
- **Propeller Replacement:** If a propeller is damaged, use the provided screwdriver to carefully remove it and replace it with a new one. Ensure the correct propeller type (A or B) is installed on the corresponding motor.
- **Battery Care:** Store batteries in a cool, dry place. Do not expose to extreme temperatures. If not used for an extended period, charge the battery to about 50% every three months.
- **Storage:** When not in use, store the drone and remote control in a safe place to prevent damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; Remote batteries low; Drone battery low.	Re-pair drone and remote; Replace remote batteries; Charge drone battery.
Drone cannot take off or flies erratically.	Propellers damaged or incorrectly installed; Drone not calibrated; Motors obstructed.	Check/replace propellers; Calibrate drone on a flat surface; Clear any obstructions.

Problem	Possible Cause	Solution
Camera not recording or taking photos.	No SD card; SD card full or corrupted; SD card not inserted correctly.	Insert/replace SD card; Format SD card; Ensure card is fully inserted.
Short flight time.	Battery not fully charged; Battery old/damaged.	Ensure battery is fully charged; Consider replacing the battery.

9. SPECIFICATIONS

Feature	Detail
Brand	Tenergy
Model Name	61338
Special Feature	Integrated Camera, Auto Hovering
Age Range (Description)	Adult (Beginner Skill Level)
Color	Yellow
Video Capture Resolution	720p (1280x720 pixels)
Video Capture Format	MP4
Control Type	Remote Control
Material	Plastic
Item Weight	2 Ounces (approx. 56.7 grams)
Product Dimensions	7.7 x 7.7 x 1.8 inches (195.58 x 195.58 x 45.72 mm)
Optical Sensor Technology	CMOS
Batteries Included	Yes (Rechargeable Battery)



Image: Drone dimensions for reference.

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the official Tenery website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.

Online Support: Visit the Tenery official website for FAQs, troubleshooting guides, and contact information.

Email Support: Refer to your product packaging or the Tenery website for specific support email addresses.