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> TOMZON A24 Mini Drone for Kids User Manual

TOMZON A24-2 Pack

TOMZON A24 Mini Drone for Kids User Manual

Model: A24-2 Pack

Brand: TOMZON

INTRODUCTION

Welcome to the TOMZON A24 Mini Drone user manual. This guide provides detailed instructions for setting up, operating, maintaining, and troubleshooting your new drone. The TOMZON A24 is designed for easy use by beginners and kids, featuring battle mode, 3D flips, high-speed rotation, and stable flight capabilities. Please read this manual thoroughly before operating your drone to ensure safe and optimal performance.

PACKAGE CONTENTS

Before you begin, please verify that all items listed below are included in your package:

- TOMZON A24 Mini Drones (2 units, Red & Blue)
- Remote Controls (2 units)
- Modular Batteries (4 units)
- Spare Propellers (multiple sets)
- USB Charging Cables (2 units)
- User Manuals (2 units)



The complete package contents of the TOMZON A24 Mini Drone, showing two drones, two remote controls, four modular batteries, spare propellers, and charging cables.

SETUP

1. Battery Installation and Charging

The TOMZON A24 Mini Drone uses modular batteries for easy installation and removal. Ensure batteries are fully charged before first use.

1. Insert the modular battery into the drone's battery compartment until it clicks securely into place.
2. To charge, connect the USB charging cable to the battery and a compatible USB power source (e.g., computer, USB wall adapter).
3. The indicator light on the charging cable will show charging status (refer to the specific light behavior in your included manual).
4. For the remote control, open the battery compartment and insert the required batteries (not included, typically AAA).

Throw to Go



The compact size of the TOMZON A24 Mini Drone and its modular batteries, designed for easy plug-and-play functionality.

Your browser does not support the video tag.

This video demonstrates the battery installation and removal process for the TOMZON A24 Mini Drone, along with other operational aspects.

2. Connecting Drone to Remote Control

To establish a connection between your drone and the remote control:

1. Turn on the drone by pressing and holding the power button on the drone for approximately 1 second. The drone's lights will flash alternately.
2. Turn on the remote control by pressing and holding its power button. The remote control will beep and its indicator light will flash.
3. The drone and remote control will automatically connect. Once connected, the lights on both the drone and the remote control will become solid.

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This video illustrates the process of turning on the drone and remote control, and how they automatically connect for operation.

3. Horizontal Calibration

For stable flight, it is recommended to perform a horizontal calibration before each flight, especially if the drone drifts.

1. Place the drone on a flat, level surface.
2. Short press the calibration button on the remote control (refer to your remote control diagram for exact location).
3. The drone's lights will flash rapidly and then become solid, indicating successful calibration.

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This video demonstrates how to perform a horizontal calibration of the drone using the remote control, ensuring stable flight.

OPERATING INSTRUCTIONS

1. Take-off Methods

The TOMZON A24 offers multiple ways to take off:

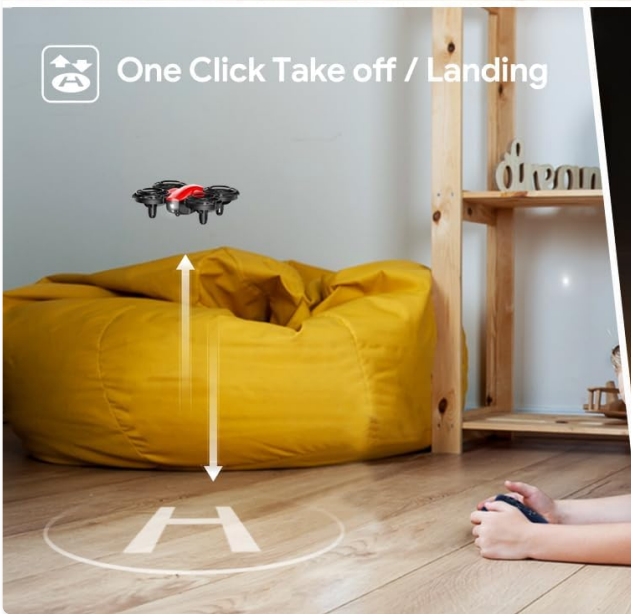
- **One-Key Take-off:** After connecting and calibrating, simply short press the "takeoff" button on the remote control. The drone will automatically ascend and hover at a stable altitude.
- **Manual Take-off:** After connecting and calibrating, push both joysticks inward 45 degrees simultaneously to start the motors. Then, push up the left throttle joystick to make the drone take off.
- **Throw to Go:** With the drone powered on and connected, gently toss the drone upwards. The drone will automatically detect the throw and begin to hover.



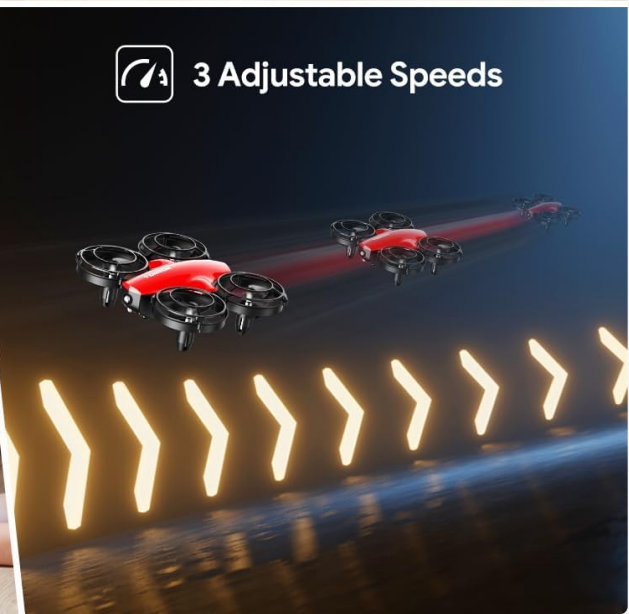
Kids Friendly Steady Hover



One Click Take off / Landing



3 Adjustable Speeds



The TOMZON A24 Mini Drone features one-click take-off and landing for ease of use, along with three adjustable speed settings.

Safe IR Battle Mode

Start Game with Friends



The 'Throw to Go' feature allows for an intuitive start to flight by simply tossing the drone into the air.

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This video demonstrates various take-off methods, including one-button take-off, manual take-off, and the 'throw to go' feature.

2. Basic Flight Controls

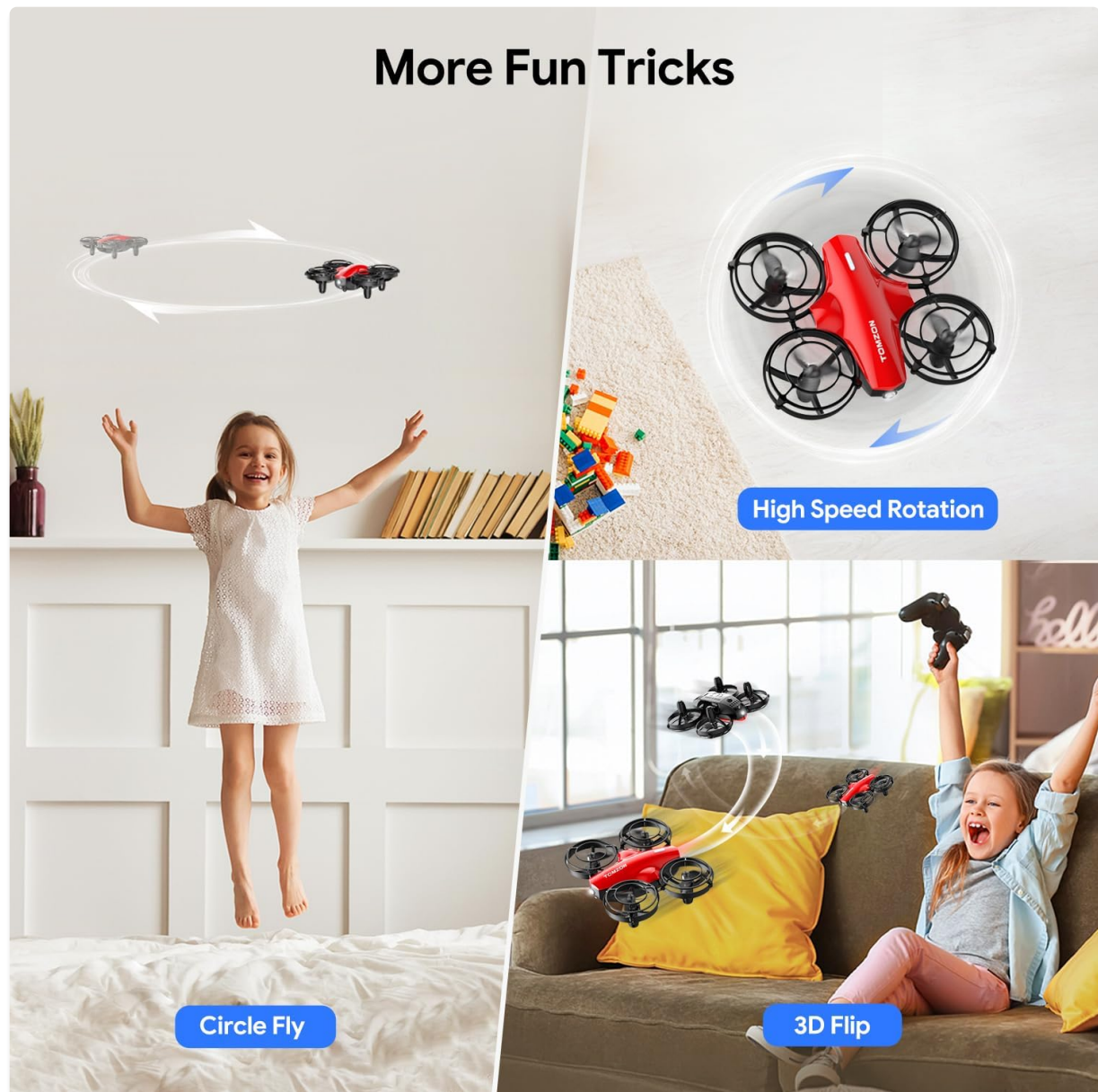
Familiarize yourself with the remote control joysticks:

- **Left Joystick (Throttle/Yaw):**
 - Push up/down: Ascend/Descend
 - Push left/right: Yaw (rotate left/right)
- **Right Joystick (Direction):**
 - Push up/down: Fly forward/backward
 - Push left/right: Fly left/right (strafe)

3. Special Features

- **3D Flips:** Press the dedicated 3D Flip button on the remote control, then push the right joystick in any

direction to perform an acrobatic flip. The drone will flip back and front, left and right depending on the joystick input.



The TOMZON A24 Mini Drone is capable of performing fun tricks such as 3D flips, high-speed rotations, and circle flights.

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This video showcases the drone performing 3D flips, demonstrating its acrobatic capabilities.

- **High Speed Rotation:** Short press the "rotation" button on the remote control. The drone will automatically rotate in place, providing an eye-catching maneuver.

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This video demonstrates the drone's self-rotation feature, allowing it to spin in place automatically.

- **Circle Fly:** Short press the "circle flight" button on the remote control. The drone will automatically fly in a circular path. Any joystick input will exit this mode.

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This video shows the drone performing a circle flight, automatically orbiting a central point.

- **Battle Mode:** The A24 drones feature an infrared (IR) battle mode for multi-player fun. Short press the attack button on the remote control to simulate shooting. When an attacked A24 drone receives a hit, it will shake and eventually be forced to land slowly, indicating a 'defeat'.

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This video demonstrates the exciting IR Battle Mode, where two TOMZON A24 drones engage in simulated aerial combat.

- **Altitude Hold:** The drone is equipped with Altitude Hold, allowing it to maintain a stable height automatically, making it easier for beginners to control.
- **Headless Mode:** Designed for new pilots, Headless Mode eliminates the need to adjust the drone's position before flight. The drone's orientation will be relative to the pilot's position, regardless of the drone's actual front.
- **Emergency Stop:** In case of an emergency or loss of control, press the emergency stop button on the remote control to immediately cut power to the motors and land the drone.

MAINTENANCE

Proper maintenance ensures the longevity and performance of your TOMZON A24 Mini Drone:

- **Cleaning:** Regularly wipe the drone with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or liquids.
- **Propeller Replacement:** If propellers are damaged or bent, replace them with the provided spare parts. Carefully remove the old propeller and snap the new one into place, ensuring correct orientation (A or B).
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If not used for an extended period, charge batteries to about 50% capacity.
- **Storage:** When not in use, store the drone and remote control in a safe place away from direct sunlight and extreme temperatures.

TROUBLESHOOTING

Here are solutions to common issues you might encounter:

Problem	Possible Cause	Solution
Drone not pairing	Drone or remote not powered on; out of range; battery low.	Ensure both are on and charged. Bring them closer. Re-attempt pairing process.
Unstable flight/drift	Not calibrated; damaged propellers; environmental interference.	Perform horizontal calibration. Check and replace damaged propellers. Fly in a calm environment.
Short flight time	Battery not fully charged; old battery; continuous high-speed operation.	Fully charge batteries. Consider replacing old batteries. Reduce aggressive maneuvers.
Motors not spinning	Not paired; motors locked; foreign object in propeller.	Ensure successful pairing. Check for obstructions. Re-attempt manual take-off sequence.
Lost drone (out of range)	Flew too far; strong interference.	Always fly within visual range. Avoid areas with strong Wi-Fi or radio interference. Note: This model does not have a 'Return to Home' function.

SPECIFICATIONS

Feature	Detail
Brand	TOMZON
Model Name	A24-2 Pack
Color	Red & Blue
Item Weight	1.16 ounces (33 Grams)
Product Dimensions	3.62"L x 3.15"W x 1.18"H
Skill Level	Beginner
Control Type	Remote Control
Remote Control Technology	2.4G WIFI
Batteries	4 Lithium Ion batteries required (included)
Recommended Age	14 years and up
Special Features	Circle Fly, 360 Degree Flip, Throw to Go, High Speed Rotation, Infrared Battle Mode

WARRANTY AND SUPPORT

TOMZON is dedicated to providing high-quality products and excellent customer service.

- **Warranty:** Each TOMZON A24 Mini Drone comes with a one-year warranty.
- **Support:** For any questions, customized usage tips, or assistance, please utilize our 24/7 online help service. We are committed to providing support for all your drone needs.

For further information or to contact support, please visit the official TOMZON Store: [TOMZON Store on Amazon](#)