

ATOYX AT66

ATOYX Mini Drone AT66 User Manual

Model: AT66 | Brand: ATOYX

1. INTRODUCTION

Thank you for purchasing the ATOYX Mini Drone AT66. 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. Keep this manual for future reference.

Safety Precautions

- This product is suitable for users aged 6 years and up. Adult supervision is recommended for younger users.
- Always operate the drone in an open, safe environment, away from people, animals, and obstacles.
- Do not fly near high-voltage lines, airports, or crowded areas.
- Ensure all propellers are securely attached before flight.
- Do not touch the propellers during operation.
- Turn off the drone and remote control when not in use.
- Use only original ATOYX parts and accessories.
- Do not modify the drone or its components.

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- ATOYX Mini Drone AT66
- Remote Control
- Rechargeable Drone Batteries (2 included)
- USB Charging Cable
- Spare Propellers (4 pieces)
- User Manual (this document)



Image 2.1: Contents of the ATOYX Mini Drone AT66 package, including the drone, remote control, two batteries, and spare propellers.

3. PRODUCT OVERVIEW

Drone Components

- **Propeller Guards:** Protect propellers from impact.
- **Propellers:** Generate lift for flight.
- **LED Lights:** Indicate drone status and provide visibility.
- **Battery Compartment:** Houses the drone's rechargeable battery.

Remote Control Components

- **Left Joystick (Throttle/Yaw):** Controls altitude and rotation.
- **Right Joystick (Direction):** Controls forward, backward, left, and right movement.
- **One Key Take-off/Landing Button:** Initiates automatic take-off or landing.
- **Headless Mode Button:** Activates/deactivates Headless Mode.
- **Speed Switch Button:** Cycles through different flight speeds.
- **3D Flip Button:** Initiates a 360-degree flip.
- **Power Indicator Light:** Shows remote control status.

4. SETUP

4.1 Battery Installation and Charging

1. **Drone Battery:** Insert the rechargeable battery into the drone's battery compartment. Ensure it clicks into place securely.
2. **Remote Control Batteries:** Open the battery cover on the back of the remote control. Insert 3 AAA batteries (not included) according to the polarity markings. Close the cover.
3. **Charging the Drone Battery:** Connect the drone battery to the USB charging cable. Plug the USB cable into a 5V/1A USB adapter (e.g., computer USB port, phone charger). The indicator light on the USB cable will turn off when charging is complete. Charging typically takes 25-35 minutes for approximately 7-8 minutes of flight time.

4.2 Propeller Installation/Replacement

If a propeller is damaged, replace it with a spare. Match the propeller type (A or B) to the corresponding motor on the drone. Gently push the propeller onto the motor shaft until it is secure.

4.3 Pairing the Drone and Remote Control

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

5. OPERATING INSTRUCTIONS

5.1 Calibration

After pairing, it is recommended to calibrate the drone for stable flight. Push both joysticks down and to the right simultaneously for 2-3 seconds until the drone's lights flash rapidly and then become solid. This indicates successful calibration.

5.2 Basic Flight Controls

- **One Key Take-off:** Press the One Key Take-off/Landing button. The drone will automatically ascend and hover at a certain altitude.
- **Throttle (Left Joystick Up/Down):** Controls the drone's altitude. Push up to ascend, pull down to descend.
- **Yaw (Left Joystick Left/Right):** Controls the drone's rotation. Push left to rotate counter-clockwise, push right to rotate clockwise.
- **Direction (Right Joystick):** Controls forward, backward, left, and right movement.
- **One Key Landing:** Press the One Key Take-off/Landing button again. The drone will automatically descend and land.

5.3 Special Features

- **Altitude Hold:** The drone maintains its current altitude automatically, making it easier to control. This feature is active by default.
- **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.



Image 5.1: Visual representation of Headless Mode, Altitude Hold, 3D Flip, and 3 Speed Modes.

- **3D Flips:** Fly the drone to a height of at least 2 meters. Press the 3D Flip button, then quickly move the right joystick in any direction (forward, backward, left, or right) to perform a 360-degree flip.



3D FLIP

Stunning 360° rotation for exciting performance time



Image 5.2: The ATOYX Mini Drone AT66 executing a 360-degree flip.

- **Speed Modes:** Press the Speed Switch button to cycle through 3 speed modes (Low, Medium, High). The drone will beep to indicate the current speed setting.

3 FLIGHT SPEEDS

Passion for speed in flight



Image 5.3: Illustration of the drone operating at different speed settings: Low, Medium, and High.

- **LED Lights:** The drone features multi-color LED lights for enhanced visibility and visual appeal.



Image 5.4: The drone showcasing its vibrant LED lighting during flight.

6. MAINTENANCE

6.1 Cleaning

Gently wipe the drone with a clean, dry cloth. Do not use water or chemical cleaners, as this can damage the electronic components.

6.2 Storage

Store the drone and remote control in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries from the remote control if storing for extended periods.

6.3 Battery Care

- Do not overcharge or over-discharge the drone batteries.
- Always allow batteries to cool down before recharging.
- If a battery is swollen, leaking, or damaged, discontinue use immediately and dispose of it properly.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired, low battery, remote batteries dead.	Re-pair the drone and remote. Charge drone battery. Replace remote batteries.
Drone flies unstably or drifts.	Not calibrated, damaged propeller, uneven surface during take-off.	Perform calibration on a flat surface. Replace damaged propellers. Ensure drone is on a level surface for take-off.
Drone does not take off.	Low battery, propellers blocked, not paired.	Charge drone battery. Check for obstructions around propellers. Re-pair drone and remote.
Short flight time.	Battery not fully charged, old battery.	Ensure battery is fully charged. Consider replacing old batteries.

8. SPECIFICATIONS

Feature	Detail
Brand	ATOYX
Model Name	Mini Drone (AT66)
Color	Blue
Item Weight	50 Grams (1.76 ounces)
Product Dimensions	3.15 x 3.15 x 1.4 inches
Skill Level	Beginner
Age Range (Description)	6 years old and up
Connectivity Technology	Radio Wave
Control Type	Remote Control
Battery Capacity	220 Milliamp Hours (Lithium Ion)
Special Features	Rechargeable, Altitude Hold, Headless Mode, 3D Flips, 3 Speed Modes
Material	Plastic

9. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or contact ATOYX customer service directly. Details are typically available on the product packaging or the official ATOYX website.

Note on Video Content: The provided product data did not include specific URLs or metadata for official product videos with 'creator_type: Seller'. Therefore, no videos could be embedded in this manual.

