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## SYMA X660

# SYMA X660 Mini Drone Instruction Manual

Model: X660

## INTRODUCTION

This manual provides detailed instructions for the safe operation and maintenance of your SYMA X660 Mini Drone. Please read this manual thoroughly before operating the drone to ensure proper use and to prevent damage or injury. Keep this manual for future reference.

## PACKAGE CONTENTS

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

- 1 x SYMA X660 Drone
- 1 x Remote Control
- 1 x USB Charging Cable
- 4 x Extra Propellers
- 1 x Screwdriver
- 1 x Instruction Manual

STEM Toys

**TEACHING PHYSICS,  
COORDINATION, AND  
ENGINEERING  
THROUGH FLIGHT**



## PRODUCT OVERVIEW

### Drone Features

- 6-Color LED Light Display
- Full Propeller Guards for Safety
- Compact and Lightweight Design
- Altitude Hold Function
- One-Key Takeoff/Landing
- 3-Speed Modes
- Headless Mode
- 360° Flips and other stunt modes

### Remote Control Layout

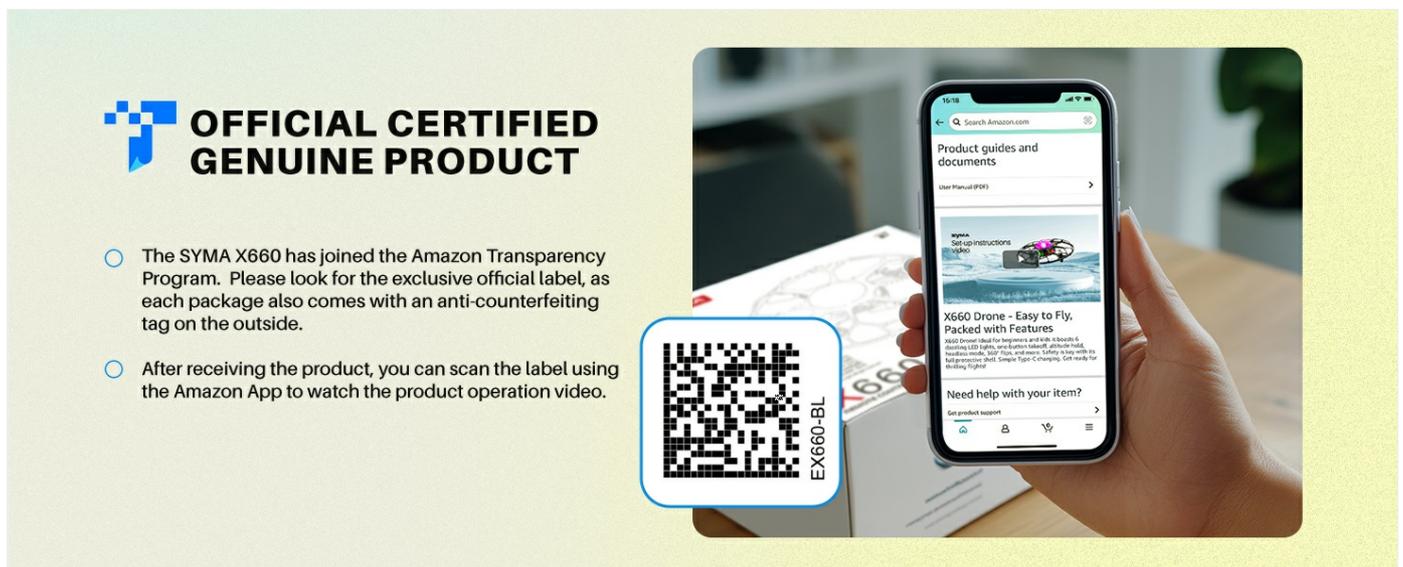


Image: Remote control layout with functions for left joystick (light effects, trimming), right joystick (speed switch), spin button, rotate button, flip button, one-key takeoff/landing, and power switch.

- **Left Joystick:** Short press to change light effects; press and hold for trimming adjustment. To clear trimming settings, press and hold simultaneously with the power button.
- **Right Joystick:** Short press to switch between high and low speed modes.
- **Spin Button:** Initiates spin flight.
- **Rotate Button:** Initiates rotary ascent.
- **Flip Button:** Activates 360° flip stunt.
- **One-Key Takeoff/Landing Button:** For automatic takeoff and landing.
- **Power Switch:** Turns the remote control on/off.

## SETUP

### 1. Charging the Drone Battery

1. Connect the drone's Type-C charging port to the USB charging cable.
2. Connect the USB charging cable to a USB power adapter (not included) or a computer's USB port.

3. The drone's LED lights will indicate charging status (refer to the full instruction manual for specific light patterns).
4. Charging time is approximately 40 minutes.

## **2. Installing Remote Control Batteries**

1. Open the battery compartment on the back of the remote control.
2. Insert the required batteries (refer to the remote control for battery type and polarity).
3. Close the battery compartment securely.

## **3. Pairing the Drone and Remote Control**

1. Place the drone on a flat, level surface.
2. Turn on the drone's power switch. The drone's LED lights will flash.
3. Turn on the remote control's power switch.
4. Push the left joystick fully up, then fully down. The drone's LED lights will stop flashing and remain solid, indicating successful pairing.

# **OPERATING INSTRUCTIONS**

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## **Basic Flight Controls**

# EASY TO FLY AND TRAIN SKILLS

Easily control up down forward backward  
left right and rotate



Ascend / Descend



Forward / Backward



Left Turn / Right Turn

Image: Basic flight controls for the SYMA X660 Mini Drone.

- **Takeoff:** Press the One-Key Takeoff/Landing button. The drone will automatically ascend and hover.
- **Landing:** Press the One-Key Takeoff/Landing button again. The drone will automatically descend and land.
- **Ascend/Descend:** Use the left joystick to control altitude. Push up to ascend, pull down to descend.
- **Forward/Backward:** Use the right joystick to move the drone forward or backward.
- **Left/Right Turn:** Use the right joystick to turn the drone left or right.

## Special Features

### 6-Color LED Light Display

The drone features 6 vibrant, switchable LED colors. Short press the left joystick on the remote control to cycle through the different light effects. The lights will blink rapidly when the battery is low, indicating it's time to land.

# A LIGHT SHOW OF HIS OWN



Image: SYMA X660 Mini Drone displaying its 6-color LED lights.

## 3-Speed Modes

The drone offers three adjustable speed settings. Short press the right joystick to switch between low, medium, and high speed modes. Beginners should start with the low speed mode.

# CONFIDENCE GROWS WITH EVERY FLIGHT

Stable drone and fun obstacle challenges for beginners



Image: Illustration of the drone's speed modes, showing a drone in low speed and high speed.

## Headless Mode

In Headless Mode, the drone's orientation is relative to the pilot, regardless of the drone's actual front direction. This simplifies control for beginners. Refer to the full instruction manual for activation and deactivation procedures.

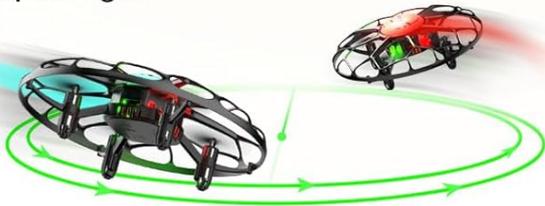
## One-Touch Stunts

The SYMA X660 Mini Drone can perform various aerial acrobatics with simple button presses:

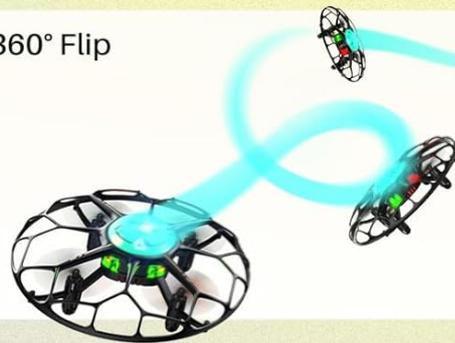
- **360° Flips:** Press the Flip button to execute a 360-degree roll.
- **Rotary Ascent:** Press the Rotate button to perform a spiraling climb.
- **Spin Flight:** Press the Spin button to make the drone spin while flying.
- Other stunts include Spin in Place, Diagonal Flip, and Self-spin and Orbital Flight.

# NOT JUST FLYING MASTER 6 AWESOME TRICKS

Spin Flight



360° Flip



Diagonal Flip



Spin in Place



Spiral Ascent



Self-spin and  
Orbital Flight



Image: Visual guide to mastering 6 drone tricks.

## MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using water or solvents.
- **Propeller Replacement:** If propellers are damaged, use the included screwdriver to replace them with the spare propellers. Ensure correct propeller (A or B) is installed in the corresponding position.
- **Battery Care:** Do not overcharge or over-discharge the battery. Store the drone and battery in a cool, dry place when not in use. Remove batteries from the remote control if storing for extended periods.
- **Storage:** Store the drone and its components in a safe place, away from direct sunlight and extreme temperatures.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drone does not respond to remote control.	Not paired; low battery in drone or remote.	Re-pair the drone and remote. Charge drone battery; replace remote control batteries.
Unstable flight or drifting.	Drone not calibrated; damaged propellers.	Calibrate the drone on a flat surface. Replace damaged propellers. Adjust trimming settings.
Short flight time.	Battery not fully charged; old battery.	Ensure battery is fully charged. Consider replacing the battery if it's old or degraded.
LED lights blinking rapidly.	Low drone battery.	Land the drone immediately and recharge the battery.

For more detailed troubleshooting, please refer to the complete instruction manual included in your package.

## SPECIFICATIONS

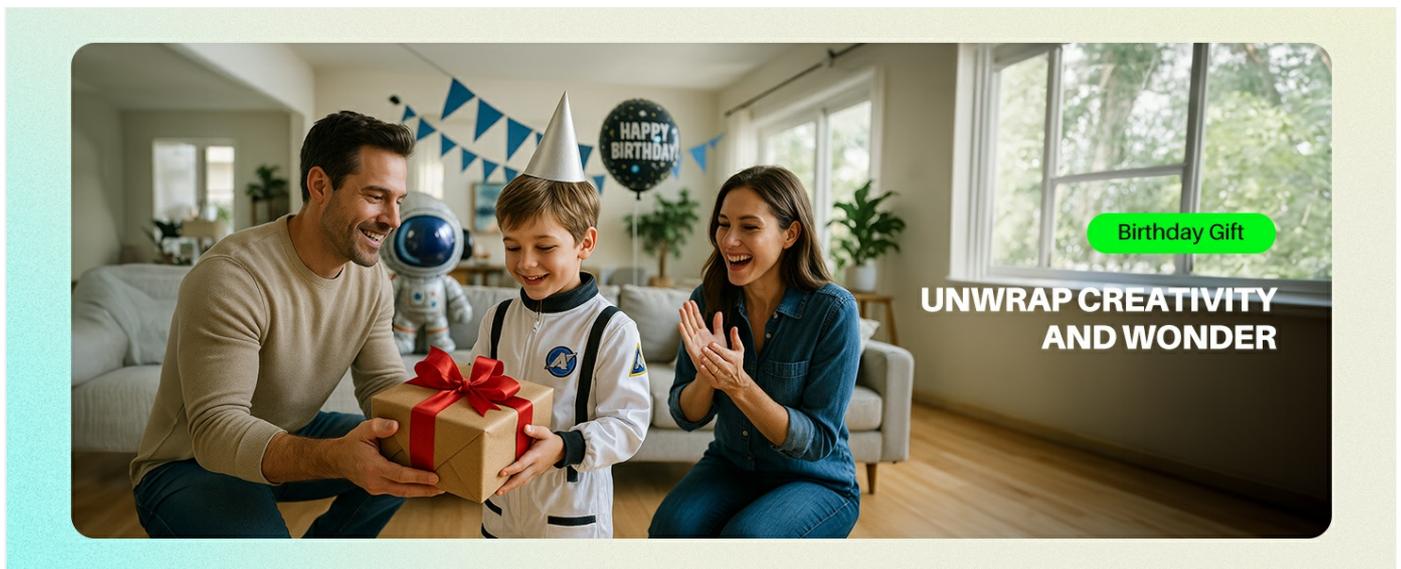


Image: Product features and specifications overview.

Feature	Detail
Brand	SYMA
Model Name	X660
Product Dimensions	4.72"L x 4.72"W x 1.77"H
Item Weight	38 Grams (1.34 ounces)
Battery Capacity	200 Milliamp Hours (3.7V)
Charging Time	Approximately 40 minutes
Flight Time	Approximately 6 minutes
Remote Control Distance	Approximately 115 ft
Connectivity Technology	2.4GHz
Skill Level	Beginner

Feature	Detail
Special Features	6-Color LED Light Display, Kid-Safe Design, Stunt Modes, Altitude Hold

## OFFICIAL PRODUCT VIDEO

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Your browser does not support the video tag.

Video: An official product video demonstrating the features and operation of the SYMA X660 Mini Drone.

## WARRANTY INFORMATION

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Specific warranty details for the SYMA X660 Mini Drone are typically provided with the product packaging or on the manufacturer's official website. Please refer to those sources for the most accurate and up-to-date warranty information.

## SUPPORT AND CONTACT

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If you encounter any issues or have questions regarding your SYMA X660 Mini Drone, please contact our customer support team:

- **Email:** [usa@symatoys.com](mailto:usa@symatoys.com) (USA)
- **Phone:** +1 (718) 312-0558

For additional resources, you may visit the official SYMA website.

