

SYMA X56W

SYMA X56W Drone Instruction Manual

Model: X56W

1. SAFETY GUIDELINES

Please read this instruction manual carefully before operating the SYMA X56W drone. Failure to follow these instructions may result in injury or damage to the product.

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.
- Do not fly near airports, power lines, or restricted airspace.
- Ensure the drone battery is fully charged and the remote control batteries are fresh before each flight.
- Keep fingers and hair away from rotating propellers.
- Do not operate in strong winds or adverse weather conditions.
- Adult supervision is recommended for younger operators.
- Turn off the drone and remote control when not in use.

2. PACKAGE CONTENTS

Verify that all items are present in your SYMA X56W package:

- SYMA X56W Drone
- Remote Control
- Blades (Propellers)
- Battery x 2
- Camera

- Phone Holder
- USB Charger
- Protective Frame
- Screwdriver
- User Manual



Remote control



Drone



Blades



Battery X 2



With camera



Phone holder



USB charger



Protective frame



Screwdriver



Manual user

Image: All components included in the SYMA X56W drone package.

3. PRODUCT OVERVIEW

The SYMA X56W is a foldable quadcopter designed for ease of use and stable flight. It features a compact design, making it portable for various outdoor activities.

Key Features:

- **Foldable Design:** For easy transport and storage.
- **Altitude Hold:** Maintains a consistent altitude for stable hovering.
- **Headless Mode:** Simplifies flight orientation, making it easier for beginners.
- **HD Camera:** Captures photos and videos during flight.
- **Wi-Fi FPV:** Real-time video transmission to your smartphone.
- **App Control:** Control the drone via a dedicated smartphone application.

- **Gravity Sensor Mode:** Control flight by tilting your smartphone.
- **Flight Track Mode:** Draw a path on your screen, and the drone will follow it.
- **Flash Lights:** Equipped with 4 LED lights for night flight visibility.



Image: The SYMA X56W drone showcasing its LED lights for night flight.



Folabale Design

easy Carry folded it by 4s



6*6*1.2 inch

14*14*1.2 inch

Image: The SYMA X56W drone in its folded and unfolded states, demonstrating its portable design.



Altitude Hold

Easier operation and more convenient for FPV



Image: Illustration of the Altitude Hold function, showing the drone maintaining a stable height.

4. SETUP

4.1 Drone Assembly

1. **Unfold the Drone:** Press the button at the bottom of the fuselage and carefully unfold the rotor arms until they lock into place.
2. **Install Protective Guards:** Insert the protective guards into the corresponding slots on each motor arm.
3. **Install Blades (Propellers):** Ensure correct blade installation by matching the marks on the blades to the corresponding marks on the drone. There are two types of blades (A and B); install them on the correct motor.
4. **Install Camera:** Securely attach the camera to the designated slot on the drone's underside.

4.2 Battery Installation (Drone)

Insert the fully charged drone battery into the battery compartment on the drone's body. Ensure it is

securely connected and the compartment cover is closed.

4.3 Remote Control Battery Installation

Open the battery compartment on the back of the remote control. Insert four self-purchased AA batteries, ensuring correct polarity. Close the battery compartment.

4.4 Mobile Phone Holder Installation

Attach the mobile phone holder to the top of the remote control. Adjust it to securely hold your smartphone.

4.5 App Download and Connection

1. Scan the QR code provided in the manual or on the packaging to download the SYMA FPV application.
2. Turn on the drone.
3. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named 'SYMA-X56W-XXXX').
4. Open the SYMA FPV application. You should see the live video feed from the drone's camera.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off and Pairing

1. Turn on the drone. The indicator lights will flash.
2. Turn on the remote control.
3. Push the left joystick (throttle) all the way up, then all the way down. The drone's indicator lights will become solid, indicating successful pairing.
4. To power off, turn off the remote control first, then the drone.

5.2 Basic Flight Controls

- **Ascend/Descend:** Push the left joystick (throttle) up to ascend, down to descend.
- **Forward/Backward:** Push the right joystick up to fly forward, down to fly backward.
- **Left/Right Sideward Flight:** Push the right joystick left to fly left, right to fly right.
- **Turn Left/Right:** Push the left joystick (throttle) left to rotate left, right to rotate right.

5.3 One-Key Take-off/Landing

After pairing, press the One-Key Take-off/Landing button on the remote control. The drone will automatically take off and hover at a certain altitude, or land gently.

5.4 Altitude Hold Mode

The drone automatically maintains its current altitude when the left joystick (throttle) is released, providing stable hovering for easier control.

5.5 Headless Mode

Long press the Headless Mode button. The drone will enter Headless Mode, meaning its orientation will be relative to the pilot, regardless of the drone's actual front. Long press again to exit.

5.6 Speed Switching

Short press the High/Low Speed button to cycle through different flight speeds (e.g., low, medium, high) to suit your flying skill level and environment.

5.7 Trim Adjustment

If the drone drifts in any direction during hover, use the trim buttons on the remote control to fine-tune its stability. For example, if it drifts forward, press the backward trim button.

5.8 Camera and Video Functions

During flight, use the dedicated buttons on the remote control or the app interface to take photos or start/stop video recording.



WIFI FPV Real-time & Sharing
Enjoy a live time flight and share them in anytime

- beautify the photos
- cut the Videos

Image: Demonstrates Wi-Fi FPV real-time viewing and sharing capabilities via smartphone.

5.9 Gravity Sensor Mode

Activate Gravity Sensor Mode in the app. Control the drone's movement (forward, backward, left, right) by tilting your smartphone in the desired direction.



Gravity Sensor Mode

Affected the flight track by the phone shaking



Image: Illustrates controlling the drone's flight path by tilting a smartphone in Gravity Sensor Mode.

5.10 Track Mode

In the app, draw a desired flight path on your screen. The drone will automatically follow this pre-defined route.



Flight Track

Drone will fly by trajectory after your drew a route on phone

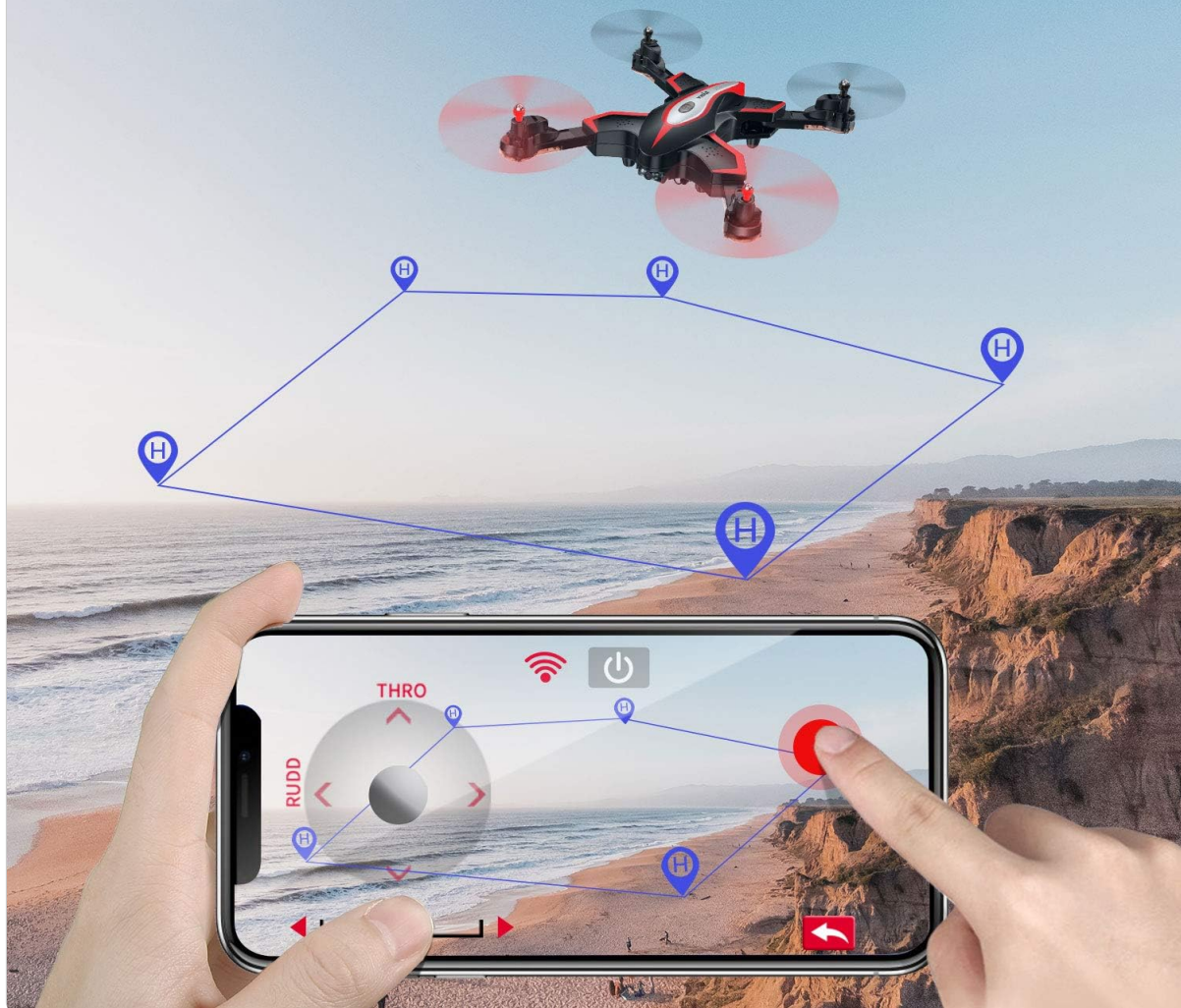


Image: A drone following a drawn flight path on a smartphone screen, demonstrating Track Mode.

5.11 3D Rolling

Press the 3D Rolling button on the remote control, then push the right joystick in any direction to perform a 360-degree flip.

5.12 Assembly and Flight Demonstration Video

Video: A detailed demonstration of the SYMA X56W drone's assembly and flight capabilities.

6. BATTERY CHARGING

When the drone's indicator lights begin to flash rapidly, it signifies a low battery. Recharge the drone battery immediately.

- Connect the drone battery to the USB charging cable.
- Plug the USB cable into a USB power source (e.g., computer, USB wall adapter).
- The indicator light on the USB charger will typically be red during charging.

- Once charging is complete, the indicator light will turn blue or off. Disconnect the battery.

Note: Charging time may vary. Do not leave batteries charging unattended.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone. Avoid water or solvents.
- **Propellers:** Regularly check propellers for damage. Replace bent or broken propellers immediately.
- **Storage:** Store the drone and remote control in a cool, dry place, away from direct sunlight. Remove batteries from the remote control if storing for extended periods.
- **Battery Care:** Do not overcharge or over-discharge batteries. Store batteries at approximately 50% charge if not used for a long time.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote control.	Not paired correctly; low battery in drone or remote.	Re-pair the drone and remote; charge drone battery; replace remote batteries.
Drone drifts during flight.	Needs trim adjustment; uneven propeller wear.	Adjust trim settings; check and replace damaged propellers.
Camera not working or poor video quality.	Camera not installed correctly; Wi-Fi interference; low light conditions.	Ensure camera is securely attached; fly in an area with less interference; ensure adequate lighting.
Drone cannot take off.	Low battery; propellers blocked; motors not unlocked.	Charge battery; clear any obstructions; ensure motors are unlocked after pairing.

9. SPECIFICATIONS

Feature	Detail
Brand	SYMA
Model Name	X56W

Feature	Detail
Connectivity Technology	Wi-Fi, Bluetooth
Control Type	Remote Control
Video Capture Resolution	1080p
Video Capture Format	MP4
Maximum Range	300 Meters
Skill Level	Beginner
Material	PP
Batteries Included	Yes (Rechargeable)

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official SYMA website or contact your retailer. Keep your purchase receipt as proof of purchase.