

cheerwing W1 PRO

Syma W1 PRO 4K Camera Drone User Manual

Model: W1 PRO

Brand: cheerwing

INTRODUCTION

This manual provides essential information for the safe and effective operation of your Syma W1 PRO 4K Camera Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury. Keep this manual for future reference.

The Syma W1 PRO is an advanced quadcopter equipped with a 4K camera, offering features such as GPS positioning, real-time FPV, and intelligent flight modes for an enhanced flying experience.

SAFETY INFORMATION

Always prioritize safety during operation. Failure to follow these guidelines may result in injury, damage to the drone, or property damage.

- **Flight Environment:** Fly in open areas, away from people, buildings, trees, power lines, and water. Avoid flying in strong winds or adverse weather conditions.
- **Line of Sight:** Always maintain visual line of sight with the drone during flight.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or short-circuit batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Ensure propellers are securely attached before flight.
- **Age Recommendation:** This product is not suitable for children under 14 years old without adult supervision.

- **Legal Compliance:** Be aware of and comply with local laws and regulations regarding drone operation.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Syma W1 PRO Drone
- 2.4 GHz Transmitter (Remote Control)
- HD Camera (integrated)
- Lithium Polymer Battery (included, quantity may vary)
- USB Charging Cable
- Spare Propellers
- User Manual



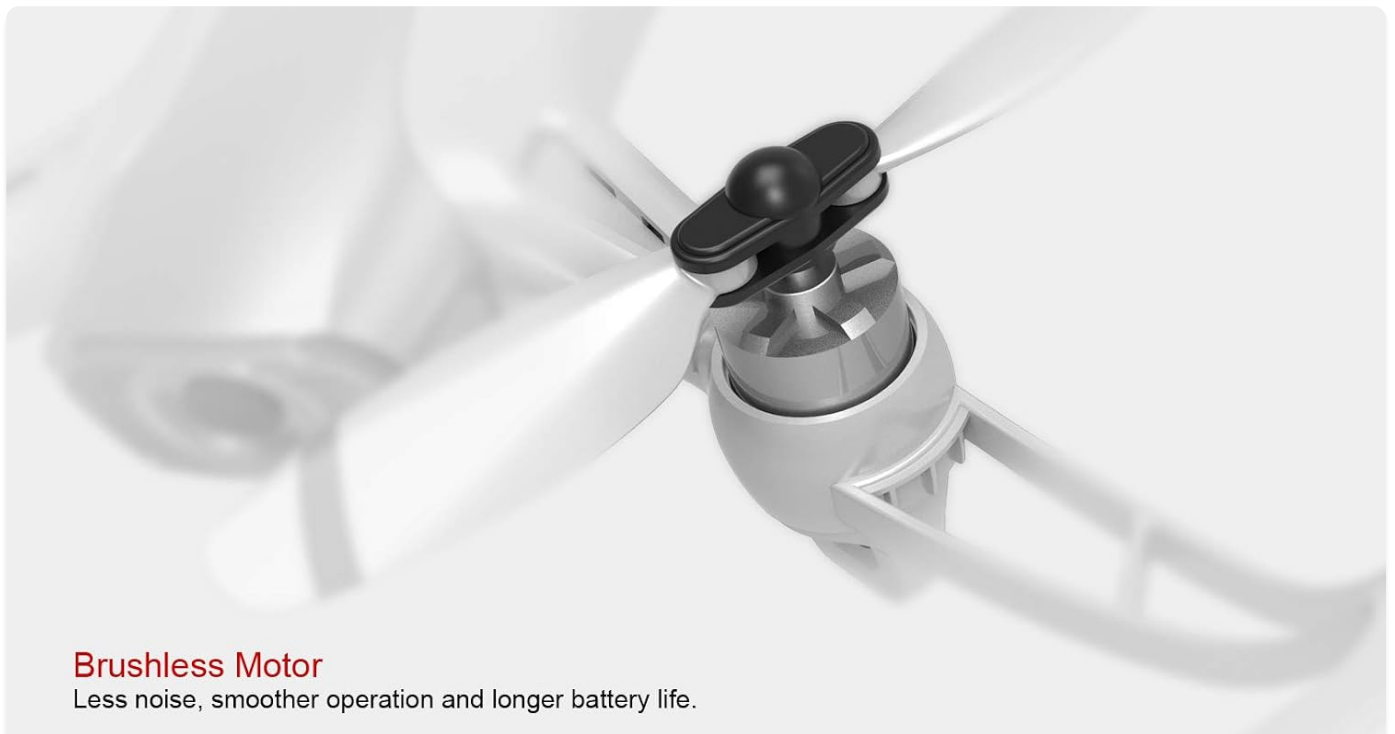
Image: The Syma W1 PRO drone, its remote control, and two rechargeable batteries, illustrating the main components included in the

SETUP

1. Battery Charging

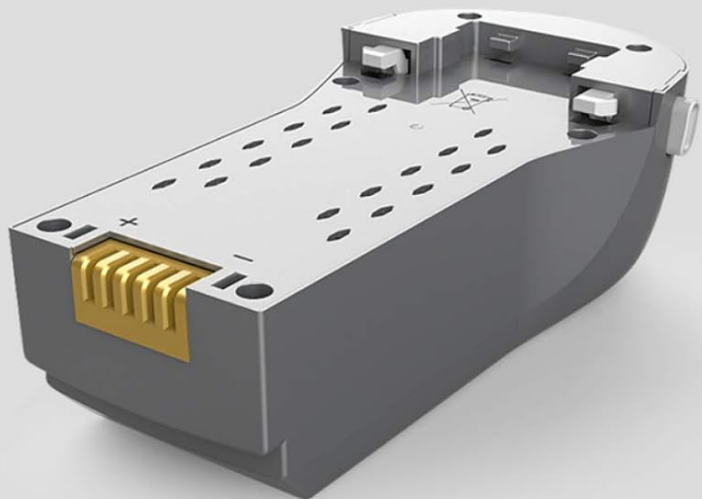
Before first use, fully charge the drone's battery. The charging time is approximately 270 minutes for a full charge, providing about 18 minutes of hovering flight time.

1. Connect the USB charging cable to the drone battery.
2. Plug the other end of the USB cable into a USB power adapter (e.g., computer USB port, phone charger).
3. The indicator light on the charger will show the charging status (refer to charger specific instructions for light indications).
4. Once charging is complete, disconnect the battery.



Brushless Motor

Less noise, smoother operation and longer battery life.



Charging time is about **270** minutes.

Hovering flight time is about **18** minutes

Image: Illustration showing the brushless motor design for quieter operation and a graph indicating approximately 18 minutes of flight time after 270 minutes of charging.

2. Battery Installation (Drone & Remote)

1. **Drone:** Insert the fully charged battery into the battery compartment on the drone until it clicks into place.
2. **Remote Control:** Open the battery compartment on the back of the remote control and insert the required batteries (typically AA, not always included) according to polarity markings. Close the compartment.

3. Propeller Attachment

Ensure propellers are correctly attached to their respective motor shafts. Each propeller is marked (e.g., A or B) and must match the corresponding motor. Secure them firmly.

4. App Installation and Connection

Download the official Syma FPV app from your device's app store. This app is essential for accessing advanced features and real-time video feed.

1. Turn on the drone and the remote control.
2. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named "SYMA-W1PRO-XXXXXX").
3. Open the Syma FPV app. The app should automatically connect to the drone and display the live camera feed.



Image: Diagram highlighting the drone's dual camera system, featuring a 1080P 5G WiFi camera and a 720P WiFi camera, indicating connectivity options.

OPERATING INSTRUCTIONS

1. Pre-Flight Checks

- Ensure batteries are fully charged in both drone and remote.

- Check that propellers are securely attached and undamaged.
- Verify that the flight area is clear of obstacles and people.
- Confirm successful connection between drone, remote, and app.

2. Calibration

Proper calibration is crucial for stable flight.

1. **Gyroscope Calibration:** Place the drone on a flat, level surface. Follow the app or remote control instructions to perform gyroscope calibration. This typically involves moving both joysticks to a specific corner.
2. **GPS Calibration:** For outdoor flights, ensure the drone acquires sufficient GPS satellites before takeoff. This is indicated by a solid GPS signal icon in the app.

3. Taking Off and Landing

- **One-Key Takeoff/Landing:** Press the dedicated one-key takeoff/landing button on the remote or in the app. The drone will automatically ascend to a safe height or descend and land.
- **Manual Takeoff:** Push both joysticks outwards and downwards to start the motors. Slowly push the left joystick (throttle) upwards to ascend.
- **Manual Landing:** Slowly pull the left joystick (throttle) downwards to descend. Once landed, push both joysticks outwards and downwards to stop the motors.

4. Flight Modes and Features

- **GPS Positioning:** Utilizes GPS for stable hovering and precise positioning, especially useful for outdoor flights. This feature enables advanced functions like Return to Home.



Image: Visual representation of the drone utilizing GPS for precise positioning, including features like One Key Return and automatic return on low power or signal loss.

- **Return to Home (RTH):** When activated, the drone will automatically return to its takeoff point. This function is also triggered automatically upon low battery or signal loss (requires strong GPS signal).
- **Follow Me Mode:** The drone will automatically follow the remote controller or the mobile device, keeping you in the frame.



Follow Me



Image: The drone flying above and behind a group of people on a beach, illustrating the "Follow Me" intelligent flight mode.

- **Custom Flight (Waypoint Flight):** Draw a path on the app's map interface, and the drone will fly along the specified route.



Image: A smartphone screen displaying a map with a drawn flight path, demonstrating the "Custom Flight" or waypoint navigation feature of the drone.

- **Gesture Control:** Perform specific hand gestures to trigger photo or video recording.



Image: People making hand gestures, with icons indicating that specific gestures can be used to take photos or record videos with the drone's camera.

- **Headless Mode:** In this mode, the drone's orientation is irrelevant; it will move relative to the pilot's position, making it easier for beginners to control.

5. Camera Operation (4K HD)

The integrated 4K camera allows for high-quality aerial photography and videography.

- **Photo:** Tap the photo icon in the app or press the designated button on the remote control to capture a still image.
- **Video:** Tap the video icon in the app or press the designated button on the remote control to start/stop video recording.
- **Live FPV:** The app provides a real-time first-person view from the drone's camera.

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Do not use harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace damaged propellers immediately using genuine Syma parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50% for long-term storage.
- **Motor Inspection:** Ensure motors are free from debris and spin freely.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Low battery in drone or remote; Not paired correctly.	Charge batteries; Re-pair drone and remote according to instructions.
Drone drifts during flight.	Improper gyroscope calibration; Wind interference.	Perform gyroscope calibration on a flat surface; Fly in calm conditions.
No FPV video feed in app.	Wi-Fi not connected; App not open or crashed.	Ensure phone is connected to drone's Wi-Fi; Restart app and drone.
GPS features not working.	Insufficient GPS satellites acquired; Flying indoors.	Fly outdoors in an open area; Wait for sufficient GPS lock (8+ satellites).
Short flight time.	Battery not fully charged; Old or damaged battery.	Ensure full charge; Consider replacing battery if performance degrades.

SPECIFICATIONS

Feature	Detail
Model	Syma W1 PRO
Brand	cheerwing
Dimensions	27 x 27 x 6 cm (12.59" x 12.59" x 1.96")
Weight	227 g
Camera Resolution	4K (Video Capture)
Connectivity	2.4GHz (Remote), Wi-Fi (FPV)

Feature	Detail
Control Range	Up to 200m (advertised)
Battery Type	Lithium Polymer
Flight Time	Approx. 10-15 minutes (hovering: 18 minutes)
Charging Time	Approx. 270 minutes
Stabilization	6-axis gyroscope, GPS
Special Features	GPS Positioning, One-Key Return, Follow Me, Custom Flight, Gesture Control, Headless Mode, Brushless Motors

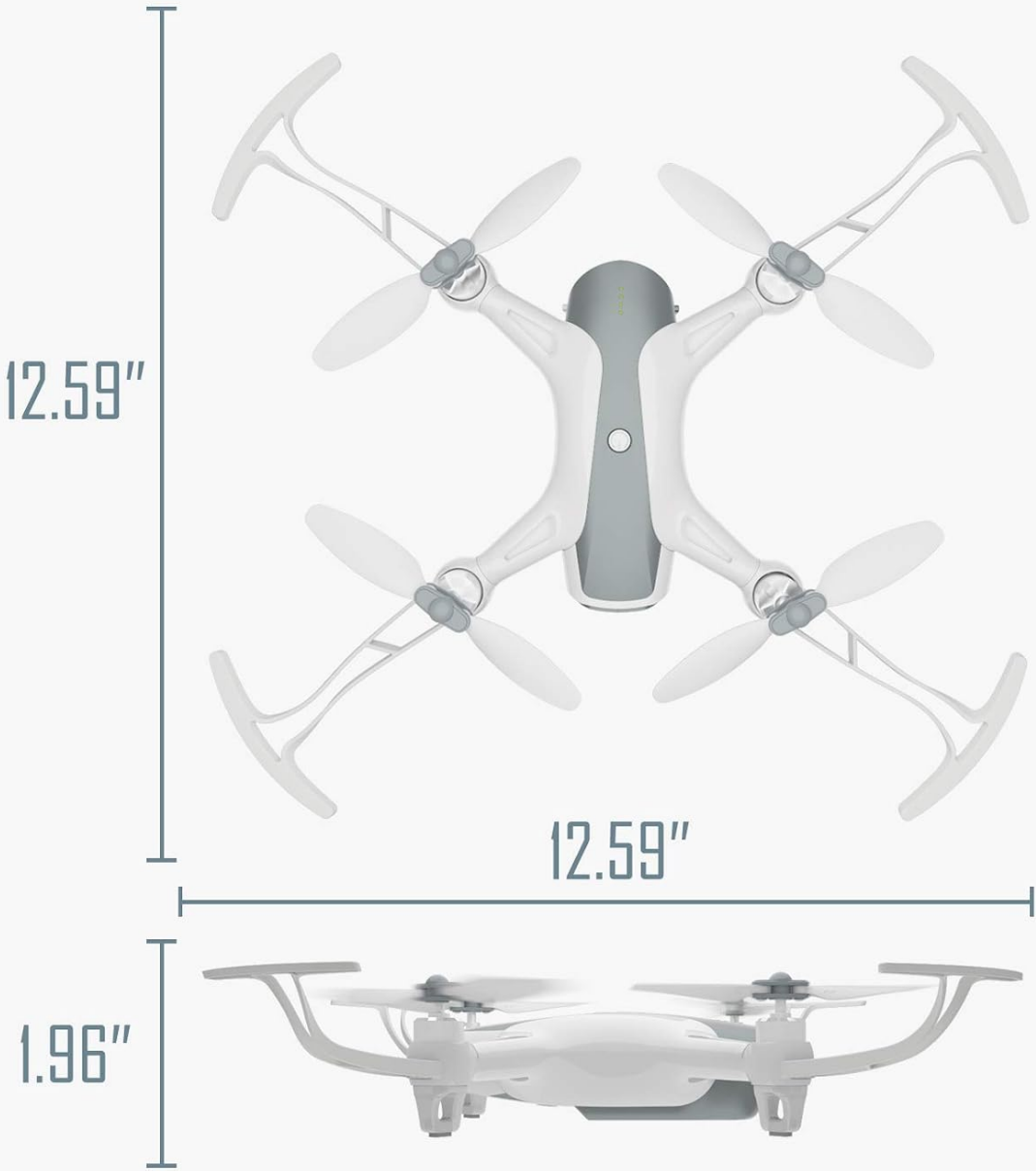


Image: Technical drawing showing the top and side views of the Syma W1 PRO drone with its dimensions: 12.59 inches (length/width) and 1.96 inches (height).

WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact cheerwing customer service. Refer to the product packaging or the official cheerwing website for the most current contact details.

Online Resources:

- Official cheerwing Store: [Visit Cheerwing Store on Amazon](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

Where can I find the transmitter button layout and usage instructions for the Syma W1 PRO 4K Camera Drone?

While the current manual text provides a general overview, here are the primary button functions for the Syma W1 PRO transmitter as described in the operating instructions:One-Key Takeoff/Landing: A dedicated button that allows the...

[Read full answer](#)

