

weidilixiang S116 MAX

S116 MAX Drone User Manual

Model: S116 MAX | Brand: weidilixiang

1. INTRODUCTION

The S116 MAX Elf Drone is an advanced aerial photography and videography device equipped with a 4K high-definition dual camera system. It features 360° intelligent obstacle avoidance, optical flow positioning, and a brushless power system for stable and precise flight. This manual provides essential information for the safe and effective operation, setup, and maintenance of your S116 MAX Drone.



Image: The S116 MAX Drone, its remote control, a spare battery, and a compact carrying case, illustrating the complete product package.

2. KEY FEATURES

- **360° Intelligent Obstacle Avoidance:** Equipped with front, rear, left, and right infrared probes to easily perceive surrounding obstacles, ensuring safer flight.

- **4K High-Definition Dual Camera:** Capture stunning aerial footage with the 4K electrically adjustable dual camera, featuring a 90° remote control angle for versatile perspectives.
- **Optical Flow Positioning Hovering:** Advanced technology ensures stable hovering and precise positioning, even in complex environments.
- **Brushless Power System:** Equipped with four efficient and energy-saving brushless motors for strong output and better wind resistance.
- **Feature-Packed:** Enjoy one-click takeoff/landing, trajectory flight, headless mode, gesture photography, beauty filter, 50x zoom, and mobile high-definition image transmission.

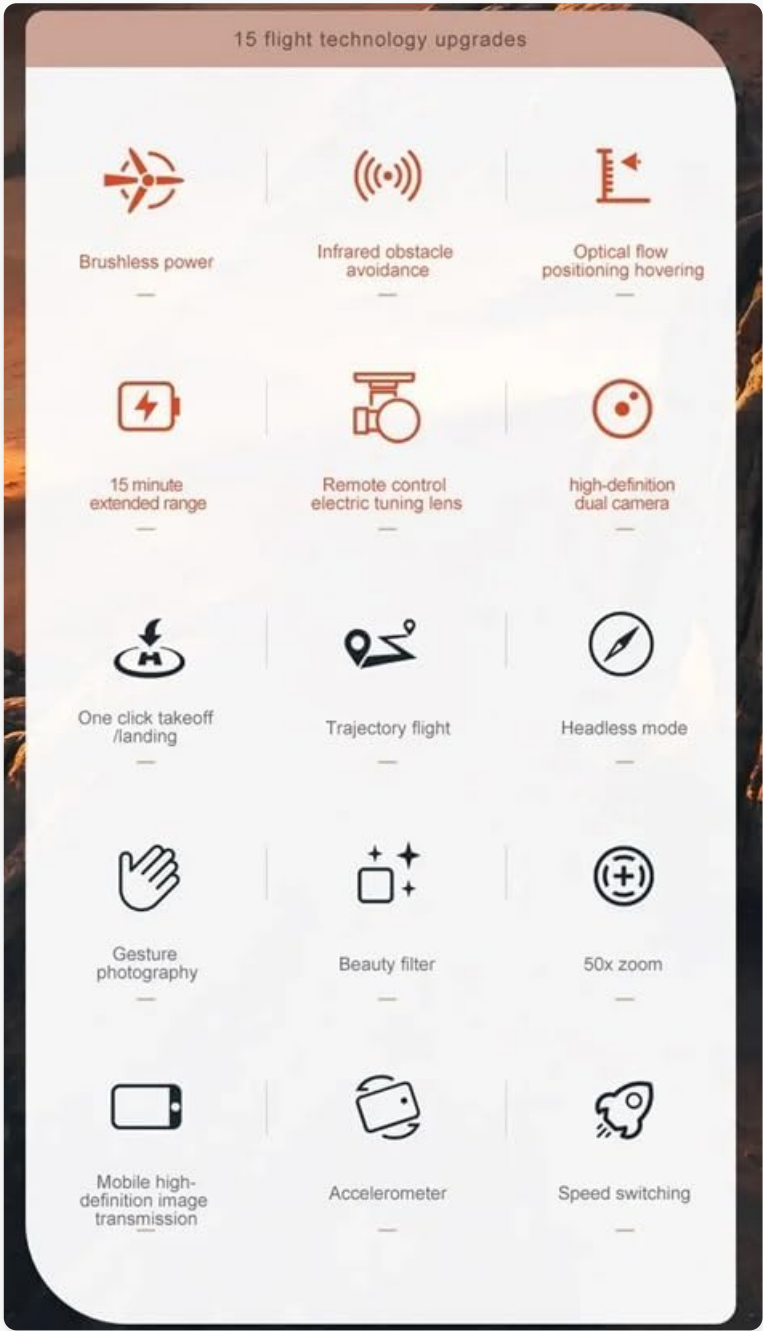


Image: An infographic detailing 15 advanced flight technology upgrades, including brushless power, infrared obstacle avoidance, optical flow positioning, and various flight modes.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all the following components are included:

- S116 MAX Drone

- Remote Control
- Rechargeable Battery (quantity may vary based on purchase option)
- USB Charging Cable
- Spare Propellers
- User Manual

4. SETUP GUIDE

4.1 Battery Charging and Installation

1. Connect the drone battery to the provided USB charging cable.
2. Plug the USB cable into a 5V/2A USB power adapter (not included). The indicator light on the battery will show charging status.
3. Once fully charged (approximately 90 minutes), disconnect the battery.
4. Insert the charged battery into the drone's battery compartment, ensuring it clicks securely into place.
5. For the remote control, ensure it is charged via its USB port.



Image: A close-up view of the S116 MAX Drone's modular battery, highlighting its design for easy insertion and removal, which contributes to its strong endurance.

4.2 Propeller Installation

Ensure propellers are correctly installed according to their markings (A and B) on the corresponding motor arms. Incorrect installation will affect flight stability.

4.3 Drone and Remote Control Pairing

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

4.4 App Connection (WiFi FPV)

1. Download the official S116 MAX drone app from your device's app store.
2. Ensure the drone is powered on.
3. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named 'S116 MAX_XXXXXX').
4. Open the drone app. You should see the live camera feed, confirming successful connection.

5. OPERATING INSTRUCTIONS

5.1 Basic Flight Operations

- **One-Click Takeoff/Landing:** Press the designated button on the remote control or in the app to initiate automatic takeoff or landing.
- **Altitude Hold:** The drone will maintain its current altitude automatically due to optical flow positioning.
- **Directional Control:** Use the right joystick for forward, backward, left, and right movements. Use the left joystick for altitude and rotation.

5.2 Obstacle Avoidance System

The S116 MAX is equipped with 360° intelligent infrared obstacle avoidance. This system automatically detects obstacles in front, rear, left, and right directions, helping to prevent collisions. While highly effective, always maintain visual line of sight and exercise caution, especially in complex environments.

360 ° infrared obstacle avoidance

Brushless

Equipped with front, rear, left, and right infrared probes, Easily perceive surrounding obstacles.



Image: The S116 MAX Drone in flight, visually representing its 360-degree infrared obstacle avoidance capability with a red glow indicating sensor detection.

5.3 Camera Operations

- **4K Dual Camera:** The drone features a 4K front camera and a bottom optical flow camera.
- **Adjustable Camera Angle:** Use the remote control to adjust the camera's vertical angle up to 90° during flight.
- **Gesture Photography:** Perform specific hand gestures in front of the camera to trigger photo or video recording. Refer to the app for specific gestures.
- **50x Zoom:** Utilize the digital zoom feature via the app to get closer shots without moving the drone.
- **Beauty Filter:** Apply real-time beauty filters to your photos and videos through the app.



Image: A detailed view of the S116 MAX Drone's 4K electrically adjustable dual camera, highlighting its ability to change angle by 90 degrees for diverse shooting perspectives.



camera switching

By remotely controlling the shooting angle through the remote control, And dual lens free switching shooting.



Remote control angle of 90 °



High definition dual camera switching

Adopting front and bottom dual lens design, supporting remote free cutting Change the shooting perspective, see more, and have a larger creative space.

Image: Illustrates the S116 MAX Drone's high-definition dual camera switching, allowing for both overhead and head-up shooting perspectives by remotely controlling the shooting angle.

5.4 Advanced Flight Modes

- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will automatically follow the designated route.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, making it easier to control regardless of the drone's front direction.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your S116 MAX Drone.

- **Cleaning:** After each flight, gently wipe the drone's body and propellers with a soft, dry cloth to remove dust and debris. Avoid using liquids directly on electronic components.
- **Propeller Inspection:** Regularly check propellers for any cracks, bends, or damage. Replace damaged propellers immediately using the provided spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries. If storing for extended periods, charge them to about 50% capacity.
- **Storage:** When not in use, store the drone and its accessories in the original packaging or a dedicated carrying case to protect them from impact and dust.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your S116 MAX Drone.

- **Drone does not power on:** Ensure the battery is fully charged and correctly inserted. Check the drone's power switch.
- **Remote control does not connect:** Ensure both drone and remote control are powered on and within range. Re-attempt the pairing process (Section 4.3).
- **Unstable flight/Drifting:** Calibrate the drone's gyroscope and accelerometer as per the app's instructions. Check for damaged or incorrectly installed propellers. Fly in calm conditions.
- **No live camera feed in app:** Verify that your smartphone is connected to the drone's Wi-Fi network. Restart the app and the drone.
- **Short flight time:** Ensure the battery is fully charged. Flight time can be affected by aggressive flying, strong winds, and low temperatures.

8. SPECIFICATIONS

Feature	Detail
Brand	weidilixiang
Model Name	S116 MAX
Color	White 1 battery
Video Capture Resolution	4K
Effective Still Resolution	32 MP
Connectivity Technology	Wi-Fi
Skill Level	Beginner
Item Weight	500 Grams (1.1 pounds)
Remote Control Technology	2.4GHz
Material	Plastic
Product Dimensions	6.15"L x 6"W x 2"H
Battery Capacity	2000mAh (3.7V Lithium)
Approx. Flight Time	15 minutes
Approx. Charging Time	90 minutes
Approx. Flight Distance	150 meters

9. SAFETY GUIDELINES

Operating a drone requires responsibility. Adhere to the following safety guidelines to ensure a safe and enjoyable experience:

- **Read the Manual:** Fully understand all instructions and warnings before operating the drone.

- **Pre-Flight Check:** Always inspect the drone, propellers, and battery before each flight.
- **Fly in Open Areas:** Operate the drone in open, unobstructed spaces, away from people, animals, buildings, and power lines.
- **Maintain Visual Line of Sight:** Always keep the drone within your visual line of sight during flight.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or other adverse weather conditions.
- **Battery Safety:** Use only original or certified replacement batteries. Do not puncture, disassemble, or expose batteries to extreme temperatures.
- **Respect Privacy:** Be mindful of others' privacy when using the camera.
- **Local Regulations:** Be aware of and comply with all local laws and regulations regarding drone operation.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase or visit the official weidilixiang website. Keep your proof of purchase for warranty claims.

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Details

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

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