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SuperRC M23

SuperRC M23 Mini RC Drone User Manual

Model: M23

INTRODUCTION

Thank you for choosing the SuperRC M23 Mini RC Drone. This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your drone. Please read this manual thoroughly before operating the drone to ensure proper function and to avoid damage or injury. This drone is designed for adult beginners and features a lightweight, portable design with an HD camera and intelligent flight functions.



The SuperRC M23 Mini RC Drone, highlighting its compact and portable design.

WHAT'S IN THE BOX

The SuperRC M23 drone package includes the following components:

- M23 Drone
- Remote Controller
- 2 x 3.7V 1050mAh Rechargeable Batteries
- 4 x Spare Propellers
- 2 x Propeller Guards
- Memory Card
- Card Reader
- Screwdriver
- USB Charging Cable
- Storage Bag
- User Manual (this document)

Upgrade remote control with screen



All components included in the SuperRC M23 drone package.

PRODUCT OVERVIEW

Remote Control Layout

Familiarize yourself with the remote control buttons and their functions before flight.

Remote Control Guide

Ordinary remote control



Detailed layout of the remote control with labeled functions.

SETUP

1. Battery Installation

1. Ensure the drone and remote control are powered off.
2. Locate the battery compartment on the drone.
3. Insert a charged 3.7V 1050mAh battery into the compartment until it clicks securely into place.
4. For the remote control, open the battery cover and insert the required batteries (not specified in product data, assume standard AA/AAA, user should refer to physical manual for exact type).

2. Propeller Installation

The drone comes with propellers pre-installed. If replacement is needed:

1. Identify the 'A' and 'B' markings on the propellers and the corresponding motor arms.

2. Attach 'A' propellers to 'A' motor shafts and 'B' propellers to 'B' motor shafts. Ensure they are firmly secured.

3. Propeller Guard Installation

For added safety, attach the propeller guards:

1. Align each propeller guard with the designated slots on the drone's motor arms.
2. Gently push until they snap into place.

4. Charging

Charge the drone batteries using the provided USB charging cable.

Module battery, USB charging

The M23 aircraft adopts a modular high-capacity lithium battery design for easy and quick installation and removal, without the need to disassemble the machine, making it fast and convenient



Modular battery design allows for easy installation and USB charging.

- Connect the USB charging cable to the drone battery.
- Plug the other end into a USB power source (e.g., computer, USB wall adapter).
- The indicator light on the cable will show charging status (refer to physical manual for specific light indications).

- Charging time is approximately 60-90 minutes for a full charge.

OPERATING INSTRUCTIONS

Pre-Flight Checklist

- Ensure drone and remote control batteries are fully charged.
- Propellers are correctly installed and secure.
- Propeller guards are attached (recommended for beginners).
- Choose an open, clear area free from obstacles, people, and animals.
- Check local drone regulations before flying.

Basic Flight Operations

The following video demonstrates key flight features including one-key takeoff, optical flow positioning, 360-degree roll, and speed switching.

Your browser does not support the video tag.

Official product video demonstrating the M23 drone's one-key takeoff, optical flow positioning for stable hovering, one-touch 360-degree roll, and 3-speed switching capabilities.

One-Key Takeoff and Landing

- **Takeoff:** Place the drone on a flat surface. Press the One-Key Takeoff button on the remote control. The drone will automatically ascend and hover at a stable altitude.
- **Landing:** Press the One-Key Landing button. The drone will slowly descend and land automatically.

Flight Modes and Features

- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, making it easier to control without worrying about the drone's front direction.
- **Speed Adjustment:** Use the speed adjustment button (or switch) on the remote control to cycle through low, medium, and high speeds. This allows for adaptable flight control based on skill level and environment.
- **360° Roll:** Press the 360° Roll button and then move the right joystick in any direction to perform an aerial flip. Ensure sufficient altitude before attempting.
- **Optical Flow Positioning:** The drone utilizes a bottom camera for optical flow positioning, which helps maintain stable hovering, especially indoors or in areas with good ground texture. This feature assists in precise altitude hold.

M23 **Brushless Motor** Optical flow positioning hover

Battery*2

HD

High definition
aerial photography



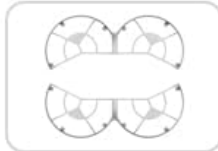
Spare propeller
blade*4



USB charging
cable*1



Screwdriver*1



Protective cover*2



Remote control*1



Instructions*1



Storage bag*1



Body battery*2

Optical flow positioning enhances flight stability and hovering.

- **Trajectory Flight:** Through the mobile application, you can draw a desired flight path on your screen. The drone will then follow this trajectory automatically.

Trajectory marking flight

Draw the desired flight trajectory on the mobile app, and the drone will immediately fly according to the drawn trajectory, experiencing intelligent flight



Draw a flight path on the app for automatic trajectory flight.

Camera Operation

The M23 drone is equipped with an HD camera with a 90-degree adjustable lens for capturing photos and videos.

Optical flow hovering greatly enhances shooting stability

Using the bottom camera for optical flow positioning and hovering, maintaining height in real-time, making it easy for beginners and novices to operate even before it becomes clearer



*Suitable for both outdoor and indoor use, capable of visual hovering

*Suitable for beginners with zero foundation, easy to get started

The HD camera features a 90-degree adjustable lens for versatile shooting angles.

- **Photo/Video Recording:** Use the dedicated buttons on the remote control or the mobile app to start/stop video recording or take photos.
- **Real-time Image Transmission:** Connect your smartphone to the drone's Wi-Fi network to view real-time footage from the drone's camera on your device.

MAINTENANCE

Cleaning

- Regularly clean the drone body with a soft, dry cloth.
- Ensure propellers are free from dust, dirt, or debris.
- Clean the camera lens gently with a microfiber cloth to maintain image quality.

Storage

- Store the drone and its components in the provided storage bag to protect them from dust and physical damage.
- Keep the drone in a cool, dry place, away from direct sunlight and extreme temperatures.

Battery Care

- Do not overcharge or over-discharge the batteries.
- If storing for extended periods, charge batteries to approximately 50-60% capacity.
- Avoid exposing batteries to high temperatures or direct sunlight.

TROUBLESHOOTING

If you encounter issues with your SuperRC M23 drone, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not respond to remote control	Low battery on drone or remote; Not paired correctly; Interference	Charge batteries; Re-pair drone and remote (refer to physical manual for pairing steps); Move to an area with less interference
Drone drifts during flight	Not calibrated; Wind interference; Damaged propeller	Perform calibration (refer to physical manual); Fly in calm conditions; Replace damaged propellers
Poor camera image quality	Dirty lens; Low light conditions; Wi-Fi interference	Clean camera lens; Fly in well-lit areas; Ensure strong Wi-Fi connection
Short flight time	Battery not fully charged; Old battery; Aggressive flying	Ensure battery is fully charged; Consider replacing old batteries; Practice smoother flight maneuvers

SPECIFICATIONS

Key technical specifications for the SuperRC M23 Mini RC Drone:

Feature	Detail
Model Name	M23-Drone
Brand	SuperRC
Item Weight	0.2 Kilograms (Under 250g)
Item Dimensions (L x W x H)	7"L x 6"W x 2"H (approx. 18 x 15 x 5 cm)
Material	Plastic
Skill Level	Beginner
Age Range (Description)	Adult
Camera	HD Camera with 90° Adjustable Lens
Video Capture Resolution	720p
Video Output Resolution	720 pixels
Video Capture Format	MP4
Supported Image Format	JPEG
Optical Sensor Technology	CMOS
Connectivity Technology	Wi-Fi, RF
Control Type	Remote Control
Battery Capacity	1050mAh (per battery)
Battery Cell Composition	Lithium Ion
Special Features	Adjustable, One Button Return, One Key Rotation, Rechargeable, Speed Adjustment, Headless Mode, Optical Flow Positioning

WARRANTY AND SUPPORT

SuperRC provides a standard warranty for the M23 Mini RC Drone against manufacturing defects.

Please retain your proof of purchase for warranty claims.

Warranty Information

- The warranty period typically covers defects in materials and workmanship under normal use.
- Damage resulting from misuse, accidents, unauthorized modifications, or improper maintenance is not covered.
- For specific warranty terms and conditions, please refer to the warranty card included in your product packaging or contact SuperRC customer service.

Customer Support

If you require further assistance, have questions, or need to report an issue, please contact SuperRC customer support through the following channels:

- **Online Support:** Visit the official SuperRC website for FAQs, support resources, and contact forms.
- **Email Support:** Refer to your product packaging or the SuperRC website for the customer service email address.
- **Retailer Support:** If purchased from a retailer, you may also contact their customer service for assistance.

When contacting support, please provide your product model (M23) and a detailed description of the issue.