

RotorLogic MR1SS5

RotorLogic Mavic Mini Remote Controller MR1SS5 User Manual

Model: MR1SS5

1. INTRODUCTION

Thank you for choosing the RotorLogic Mavic Mini Remote Controller MR1SS5. This remote controller is designed to provide precise and reliable control for your DJI Mavic Mini drone. This manual will guide you through the setup, operation, and maintenance of your new controller to ensure optimal performance.

2. PRODUCT OVERVIEW

The RotorLogic Mavic Mini Remote Controller MR1SS5 is an ergonomic, button-controlled device specifically designed for the DJI Mavic Mini. It offers a maximum control range of 2.5 miles.

2.1 What's Included

- RotorLogic Mavic Mini Remote Controller (Model MR1SS5)
- Control Sticks (2)

Note: The RC cable required to connect your mobile device to the controller **is not included** and must be purchased separately. This product also does not come in a retail box.

2.2 Controller Diagram



Figure 1: Front view of the RotorLogic Mavic Mini Remote Controller with control sticks attached.

3. SETUP

3.1 Charging the Controller

The remote controller is equipped with a Lithium-Ion Polymer battery (2600mAh, 3.6V). Before first use, fully charge the controller.

1. Connect a USB charging cable (not included) to the controller's charging port.
2. Connect the other end of the cable to a 5V-2A USB power adapter (not included).
3. The charging indicator lights will show the charging status. Disconnect once fully charged.

3.2 Attaching Control Sticks

The control sticks are detachable for easier storage. To attach them:

1. Locate the threaded ports on the top of the controller.
2. Gently screw the control sticks clockwise into the ports until secure. Do not overtighten.

3.3 Connecting to a Mobile Device

An RC cable (USB-C, Lightning, or Micro-USB, depending on your mobile device) is required to connect your smartphone to the remote controller. This cable is not included.

1. Extend the mobile device holder on the top of the controller.
2. Place your mobile device securely into the holder.
3. Connect the appropriate RC cable from your mobile device to the controller's port.

3.4 Pairing with DJI Mavic Mini

To establish communication between the controller and your drone:

1. Ensure both the remote controller and the DJI Mavic Mini drone are powered off.
2. Power on the drone first, then power on the remote controller.
3. Open the DJI Fly app on your connected mobile device.
4. Follow the on-screen instructions within the DJI Fly app to initiate the pairing process. This typically involves pressing a pairing button on both the drone and the controller.

5. Once successfully paired, the controller's status indicator will change, and the app will confirm the connection.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

- **To Power On:** Press the power button once, then press and hold it for two seconds until the power indicators light up.
- **To Power Off:** Press the power button once, then press and hold it for two seconds until the power indicators turn off.

4.2 Basic Flight Controls

The remote controller uses a standard control scheme. Refer to the DJI Fly app for customizable control settings.

- **Left Joystick:** Controls altitude (up/down) and yaw (rotate left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.
- **Dedicated Buttons:** Buttons on the controller are typically assigned for functions such as taking photos, recording video, and initiating Return-to-Home (RTH). Consult the DJI Fly app for specific button functions and configurations.

5. MAINTENANCE

5.1 Cleaning

Regular cleaning helps maintain the controller's appearance and functionality.

- Wipe the exterior of the controller with a soft, dry, lint-free cloth.
- Avoid using abrasive materials, alcohol, or chemical solvents, as these can damage the surface.
- Ensure no dust or debris accumulates around the joysticks or buttons.

5.2 Battery Care and Storage

Proper battery care extends the lifespan of your controller's Lithium-Ion Polymer battery.

- Avoid fully discharging the battery frequently.
- If storing the controller for an extended period, charge the battery to approximately 50-60% before storage.
- Store the controller in a cool, dry environment, away from direct sunlight and extreme temperatures.
- Remove the control sticks during storage to prevent accidental damage.

6. TROUBLESHOOTING

If you encounter issues with your remote controller, refer to the following common troubleshooting steps:

6.1 Controller Not Powering On

- Ensure the battery is sufficiently charged. Connect the controller to a power source and allow it to charge for at least 30 minutes before attempting to power on again.
- Verify the charging cable and power adapter are functioning correctly.

6.2 Failure to Pair with Drone

- Confirm both the remote controller and the DJI Mavic Mini drone are powered on and have sufficient battery.
- Ensure the DJI Fly app on your mobile device is updated to the latest version.
- Repeat the pairing procedure as outlined in Section 3.4.
- Try restarting both the drone and the controller, then attempt pairing again.

6.3 Connectivity Issues (Signal Loss, Lag)

- Check that the RC cable connecting your mobile device to the controller is securely plugged in at both ends.
- Ensure there are no significant physical obstructions (buildings, dense foliage) between the controller and the drone during operation.
- Avoid operating in areas with high electromagnetic interference.
- Ensure the controller's antennas are properly oriented towards the drone.

7. SPECIFICATIONS

Feature	Specification
Brand	RotorLogic
Model Name	MR1SS5
Model Number	BC.MA.SS000126
Compatible Devices	DJI Mavic Mini
Battery Type	Lithium-Ion Polymer
Battery Capacity	2600mAh 3.6V
Input	5V-2A
Maximum Range	2.5 Miles
Controller Type	Button Control
Special Feature	Ergonomic
Color	Black
UPC	810020962369
ASIN	B0868X2L3J

8. REGULATORY INFORMATION

This device complies with relevant regulatory standards.

- **FCC ID:** SS3-MRISS51905
- **IC:** 11805A-MRISS51905
- **CMMIT ID:** 2019AP5125

FCC Compliance Statement:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. This device may not cause harmful interference, and 2. This device must accept any interference received, including interference that may cause undesired operation.

Manufacturer: Shenzhen DJI Innovations Technology Co., Ltd.

Origin: Made in China



Figure 2: Regulatory labels on the back of the remote controller.

9. WARRANTY AND SUPPORT

For detailed warranty information, product support, or to inquire about replacement parts, please visit the official RotorLogic website or contact their customer service department. Please retain your purchase receipt as proof of purchase for any warranty claims.