DJI CP.MA.00000573.01

DJI Mini 2 SE User Manual

Lightweight Mini Drone with QHD Video

1. Introduction

The DJI Mini 2 SE is a lightweight and portable mini-drone designed for ease of use and high-quality aerial photography and videography. Weighing less than 249 grams, it is exempt from registration in many regions, making it an ideal choice for beginners and enthusiasts alike. This manual provides essential information for safe and effective operation of your DJI Mini 2 SE.



Figure 1: DJI Mini 2 SE drone and its remote controller.

2. Product Overview

The DJI Mini 2 SE features a compact, foldable design, making it highly portable. It is equipped with a powerful 3-axis gimbal for ultra-stable QHD video recording and 12 MP still images. The drone boasts an extended flight time and robust wind resistance.

2.1 Key Features

- **Lightweight and Portable:** Weighs less than 249g, making it easy to carry and often exempt from drone registration requirements.
- **Extended Flight Time:** Up to 31 minutes of flight time on a single battery, with options for up to 93 minutes with additional batteries (sold separately).
- **QHD Video & 12 MP Photos:** Capture high-quality aerial footage and images with a 3-axis stabilized camera.
- **10km Max Video Transmission:** DJI OcuSync technology provides strong and reliable video transmission.
- **Level-5 Wind Resistance:** Maintains stable flight even in winds up to 38 kph.
- **Beginner-Friendly Features:** Includes simplified operations, one-tap takeoff/landing, and Smart Return to Home for enhanced safety.



Figure 2: The drone's ultra-light design, weighing under 249 grams.



Figure 3: The powerful 3-axis gimbal ensures ultra-stable footage.



Figure 4: Extended flight time and strong wind resistance for reliable operation.

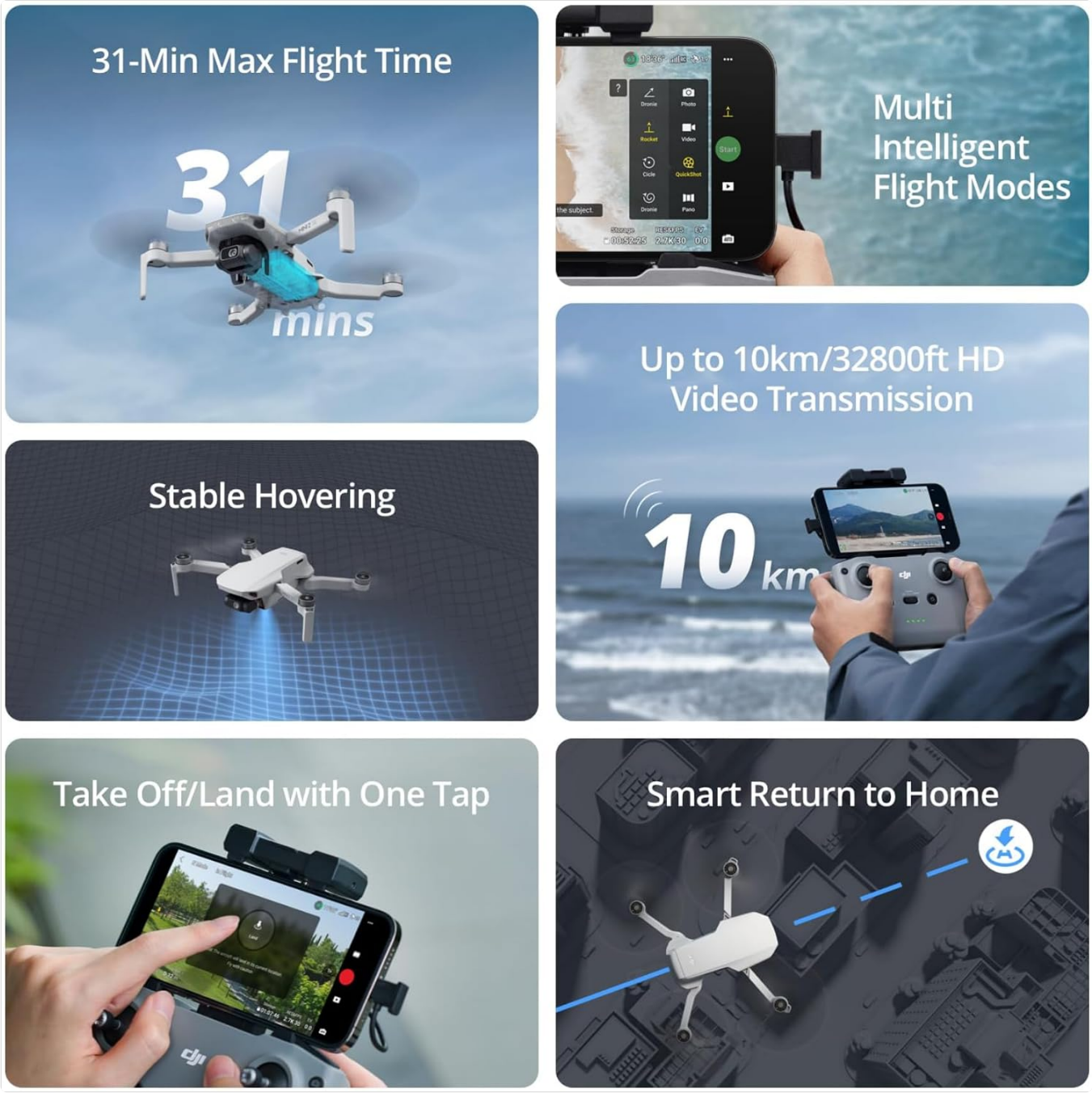


Figure 5: Overview of intelligent flight features and performance metrics.

3. Setup

Before your first flight, ensure all components are properly set up and the DJI Fly app is installed and updated.

3.1 What's in the Box



Figure 6: Standard contents included with the DJI Mini 2 SE.

- DJI Mini 2 SE Aircraft
- DJI RC-N1 Remote Controller
- Intelligent Flight Battery
- Spare Propellers (Pair)
- Gimbal Protector
- RC Cables (USB-C, Lightning, Standard Micro-USB)
- USB-C Data Cable
- Screwdriver and Spare Screws

3.2 Initial Preparation

1. **Charge Batteries:** Fully charge the Intelligent Flight Battery and the remote controller using the provided USB-C cable.
2. **Install Propellers:** Attach propellers according to the instructions in the quick start guide, ensuring correct orientation.
3. **Remove Gimbal Protector:** Carefully remove the gimbal protector before powering on the aircraft.
4. **Download DJI Fly App:** Download and install the latest version of the DJI Fly app from the DJI official website. (Note: Due to platform compatibility issues, the DJI Fly app has been removed from Google Play. Please download directly from the DJI official website.)
5. **Unfold Aircraft:** Unfold the front arms first, then the rear arms.

3.3 Linking the Remote Controller

Linking the remote controller to the aircraft is essential for control. This can be done via the DJI Fly app or using combination

buttons on the remote controller.

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Video 1: This official DJI video demonstrates how to link the DJI Mini 2 SE remote controller with the DJI Fly App. It covers powering on the aircraft, connecting your mobile device to the remote controller, navigating the app to initiate linking, and pressing the power button on the aircraft to complete the linking process. The video also shows an alternative method using combination buttons on the remote controller.

1. **Power On:** Power on both the aircraft and the remote controller.
2. **Connect Mobile Device:** Connect your mobile device to the remote controller using the appropriate RC cable.
3. **Open DJI Fly App:** Launch the DJI Fly app.
4. **Initiate Linking (App Method):**
    - Tap "Connect Aircraft" at the bottom right of the app's main screen.
    - Alternatively, tap the settings icon (three dots) on the top right, then select "Control" and "Connect to Aircraft".
5. **Initiate Linking (Aircraft):** Press and hold the aircraft's power button for approximately 4 seconds until it beeps once and the battery level LEDs blink in sequence.
6. **Confirm Linking:** The remote controller will stop beeping, and the LEDs on both the aircraft and RC will stop blinking. The live camera view will appear in the app, indicating successful linking.

4. Operation

The DJI Mini 2 SE offers intuitive controls and intelligent flight modes to enhance your flying and content creation experience.

4.1 Flight Modes

The remote controller features a switch to select between different flight modes:

- **Normal Mode (N):** Provides standard flight performance with GPS positioning and obstacle sensing. Ideal for most flight scenarios.
- **Cine Mode (C):** Slows down the drone's movements for smoother, more cinematic footage. Perfect for capturing professional-looking videos.
- **Sport Mode (S):** Increases the drone's speed and responsiveness for a more dynamic flight experience. Use with caution in open areas.

4.2 Intelligent Features

- **QuickShots:** Pre-programmed flight paths that allow the drone to automatically capture cinematic video clips. Available modes include Dronie, Helix, Rocket, Circle, and Boomerang.
- **Smart Return to Home (RTH):** The aircraft automatically returns to its recorded Home Point if the signal is lost, battery is low, or initiated manually.
- **Stable Hovering:** Utilizes downward vision system and GPS to maintain precise hovering, even indoors.
- **One-Tap Takeoff/Landing:** Simplifies flight initiation and conclusion with a single tap in the DJI Fly app.

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Video 2: This official DJI video highlights the key features of the DJI Mini 2 SE, including its lightweight design, ease of use, 10km video transmission range, 31-minute max flight time, Level-5 wind resistance, QuickShots, and Return to Home (RTH) function. It showcases the drone in various outdoor environments.

5. Maintenance

Proper maintenance ensures the longevity and optimal performance of your DJI Mini 2 SE.

- **Clean Regularly:** Use a soft, dry cloth to clean the aircraft, propellers, and camera lens. Avoid using harsh chemicals.

- **Inspect Propellers:** Before each flight, check propellers for cracks, bends, or damage. Replace if necessary using the provided screwdriver and spare propellers.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, discharge to 50-60%.
- **Firmware Updates:** Regularly check for and install firmware updates via the DJI Fly app to ensure optimal performance and access to new features.
- **Gimbal Protection:** Always attach the gimbal protector when transporting or storing the drone to prevent damage.

6. Troubleshooting

This section addresses common issues you might encounter with your DJI Mini 2 SE.

Problem	Possible Cause	Solution
Drone does not power on.	Low battery or incorrect power-on procedure.	Ensure battery is fully charged. Press power button once, then press and hold for 2 seconds.
Cannot link remote controller.	Aircraft or RC not in linking mode, or interference.	Follow linking procedure (Section 3.3). Ensure no strong interference sources nearby.
Poor video transmission quality.	Obstacles, interference, or drone too far.	Fly in open areas. Reduce distance between RC and drone. Avoid areas with strong Wi-Fi signals.
Gimbal not stable or abnormal.	Gimbal protector not removed, or calibration needed.	Remove gimbal protector. Perform gimbal calibration via DJI Fly app settings.
Drone drifts during flight.	Compass interference or IMU calibration needed.	Calibrate compass in an open area away from magnetic interference. Perform IMU calibration if necessary.

For more detailed troubleshooting, refer to the official DJI support resources.

7. Specifications

Feature	Detail
Aircraft Weight	< 249 g (including battery, propellers, and microSD card)
Max Flight Time	31 minutes (measured in a controlled environment)
Video Transmission Range	10 km (FCC compliant, unobstructed, free of interference)
Video Resolution	2.7K (QHD)
Still Photo Resolution	12 MP
Gimbal	3-axis mechanical gimbal
Wind Resistance	Level 5 (38 kph)
Operating Temperature	0° to 40° C (32° to 104° F)
Model Number	CP.MA.00000573.01
UPC	190021073159

8. Warranty and Support

DJI provides comprehensive support for its products. For detailed warranty information and technical assistance, please visit the official DJI website.

- **Official Website:** www.dji.com
- **User Guide (PDF):** Download User Guide
- **Warranty Information:** Refer to the Warranty (PDF) document for terms and conditions.

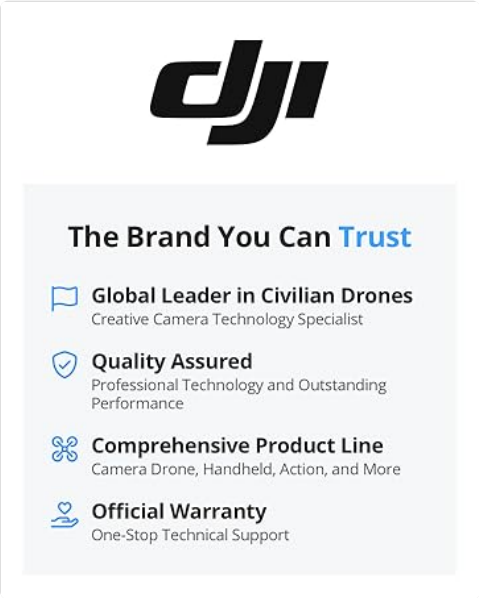


Figure 7: DJI's commitment to quality and support.

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