DJI CP.PT.000731

DJI Spark Portable Mini Drone User Manual

Model: CP.PT.000731 | Brand: DJI

1. Introduction

The DJI Spark is a portable mini drone designed to capture moments with ease and precision. It integrates DJI's core technologies, offering intelligent flight control, a mechanical gimbal for stable footage, and a high-performance camera. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your DJI Spark drone.



Figure 1: The DJI Spark mini drone in Alpine White, showcasing its compact design and four propellers.

2. What's in the Box

Upon unboxing your DJI Spark, verify that all components are present:

- Aircraft body
- Micro USB Cable
- Manual
- Charger
- Storage Box
- Extra Propellers (one set)

3. Setup Guide

3.1 Charging the Battery

Before first use, fully charge the Intelligent Flight Battery. Connect the charger to the drone's Micro USB port or use a multi-battery charging hub if available. A full charge typically takes approximately 90 minutes when charging directly via the drone.

3.2 Propeller Installation

Ensure propellers are securely attached to their respective motors. The DJI Spark comes with quick-release propellers designed for easy installation and removal. Match the marked propellers to the correct motor arms as indicated in the quick start guide.

3.3 App Installation and Connection

Download and install the **DJI GO 4** application on your mobile device (smartphone or tablet). This app is essential for controlling the drone, accessing intelligent flight modes, and viewing the camera feed. Connect your mobile device to the drone via Wi-Fi or, for enhanced stability and range, use an OTG cable to connect your device to the remote controller (if purchased separately).

4. Operating Instructions

4.1 Quick Launch and Take-off

The Spark features **Face Aware** technology, allowing it to lift off from your hand by recognizing your face. Power on the drone, and it will hover in place within seconds. For traditional take-off, use the DJI GO 4 app or the remote controller.

4.2 Flight Modes and Controls

The DJI Spark offers various intelligent flight modes and intuitive controls:

- **Gesture Control:** Take aerial photos using simple hand gestures without a remote controller or mobile device.
- **Intelligent Flight Modes:** Utilize modes like QuickShot (Rocket, Dronie, Circle, Helix) for cinematic videos with minimal effort.
- **Sport Mode:** For experienced users, this mode allows for faster flight speeds (up to 50 km/h) and more agile maneuvers.

For optimal control and extended range, it is highly recommended to use the dedicated remote controller (sold separately). This significantly increases the operational range compared to Wi-Fi control via a mobile device alone.

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Video 1: An official overview of the DJI Spark, demonstrating its features and flight capabilities.

4.3 Camera and Gimbal

The Spark is equipped with a high-performance camera capable of capturing amazing images and stabilized video. The 2-axis mechanical gimbal ensures shake-free shots, providing smooth and professional-looking footage even during dynamic flight.

5. Maintenance

5.1 Propeller Care and Replacement

Propellers are designed to break upon impact to protect the motors. Regularly inspect propellers for any signs of damage (bends, cracks, chips). Replace damaged propellers immediately using the extra propellers provided or genuine DJI replacements. Ensure correct propeller type (clockwise/counter-clockwise) is installed on the corresponding motor.

5.2 Battery Maintenance

Allow batteries a short cooldown period (5-10 minutes) after flight before attempting to recharge them. This prevents potential errors and prolongs battery life. Store batteries in a cool, dry place and avoid fully discharging them for extended periods.

5.3 General Cleaning

Keep the drone body, camera lens, and sensors clean. Use a soft, dry cloth to wipe surfaces. Avoid using harsh chemicals or abrasive materials that could damage the drone's finish or components.

6. Troubleshooting

6.1 Signal Loss or Low Battery

The DJI Spark features an automatic **Return to Home (RTH)** function. If signal is lost or the battery level becomes critically low, the drone will automatically attempt to return to its take-off point. Ensure a clear line of sight and monitor battery levels during flight.

6.2 App Lag or Connection Issues

If you experience lag or errors with the DJI GO 4 app, try the following:

- Ensure your mobile device's Bluetooth is turned off, as it can interfere with Wi-Fi connectivity.
- If using an OTG cable, unplug and replug it to re-establish the connection.
- Restart the DJI GO 4 app and the drone.

6.3 Drone Crashes

While the DJI Spark is designed to be durable, crashes can occur. In the event of a crash, inspect the drone for any visible damage, particularly to the propellers and gimbal. Replace any broken components before attempting further flight. The "Find My Drone" feature in the DJI GO 4 app can assist in locating the drone after an unexpected landing.

7. Specifications

Feature	Detail
Brand	DJI
Model Name	Spark
Color	Alpine White

Video Capture Resolution	1080p
Effective Still Resolution	12 MP
Connectivity Technology	Wi-Fi
Item Weight	500 Grams (1.1 pounds)
Product Dimensions	9.8"L x 3"W x 8.2"H
Battery Cell Composition	Lithium Ion
Gimbal	2-Axis Stabilized

8. Warranty and Support

For detailed warranty information and customer support, please refer to the official DJI website or the documentation included with your product. You can also find the official User Manual in PDF format here.
Extended protection plans may be available for purchase to cover your device beyond the standard warranty period. Check with your retailer for details on available plans.

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

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