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› [LICHIFIT Drone Airdrop System \(Model: LCAEDJ2555\) User Manual](#)

LICHIFIT LCAEDJ2555

LICHIFIT Drone Airdrop System User Manual

Model: LCAEDJ2555

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your LICHIFIT Drone Airdrop System. This device is designed to enable payload delivery for compatible DJI Mini series drones, including Mini 4K, Mini 3 Pro, Mini 3, Mini 2, Mini 2 SE, and Mini SE. Please read this manual thoroughly before use to ensure safe and effective operation.

2. SAFETY INFORMATION

- Ensure the drone's total takeoff weight, including the airdrop system and payload, does not exceed the drone's maximum takeoff weight limit. The maximum recommended payload for this system is 100g.
- Operate the drone and airdrop system in clear, open areas, away from people, animals, and obstacles.
- Do not use the airdrop system in strong winds or adverse weather conditions.
- Always check the system and drone for any damage before each flight.
- Ensure the payload is securely attached before flight to prevent accidental drops.
- Adhere to all local aviation regulations and laws regarding drone operation and payload delivery.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x Air-dropping System Unit
- 1x Base (for Mini 3/Mini 3 Pro only)
- 1x Charging Cable
- 1x Velcro Strap
- 1x Release Line
- 1x User Manual (this document)

4. SPECIFICATIONS

Feature	Specification
Material	ABS Plastic
Color	Gray
Size	5.5 x 4.1 x 3 cm
Weight	Approximately 30g (1.06 ounces)
Battery Capacity	82mAh
Max Loading Capacity	≤100g
Charging Current	1A
Charging Voltage	5V
Charging Time	1 hour
Operations per Charge	Approximately 400 times
Compatible Drones	DJI Mini 4K, Mini 3 Pro, Mini 3, Mini 2, Mini 2 SE, Mini SE

5. INSTALLATION INSTRUCTIONS

Follow these steps to properly install the airdrop system on your DJI Mini series drone.

- 1. Install the Base (for Mini 3 and Mini 3 Pro only):** If you have a DJI Mini 3 or Mini 3 Pro, clip the provided base onto the Air-Dropping System unit. This base is not required for other compatible Mini models.
- 2. Fix the Magic Tie:** Secure the Velcro strap (Magic Tie) onto the designated hole position on one side of the Air-Dropping System unit.
- 3. Attach to Drone:** Fix the Air-Dropping System to the bottom of your drone. Align it with the central hole position on the drone's underside.
- 4. Secure the System:** Wrap the Magic Tie around the top of the drone, passing it through the hole on the other side of the Air-Dropping System. Then, tighten the Magic Tie to firmly fix the system onto the drone's fuselage.

Installation instructions

1. Install the base: Clip the base onto the Air-Dropping System. Please note that only the Mini 3 and Mini 3 Pro need to be installed with a base;
2. Fix the Magic tie on the hole position on one side of the Air-Dropping System;



3. Fix the Air-Dropping System on the bottom of the drone, align it with the hole position, and place it in the center;
4. Wrap the Magic tie around the top of the drone, and pass through the hole on the other side of the Air-Dropping System, and then tighten the Magic tie to fix it on the fuselage.



Image: Detailed visual guide for installing the airdrop system, illustrating each step from attaching the base to securing the unit on the drone.

Allows to be a landing gear

Raise the fuselage to avoid damage to the arms caused by debris



Image: A visual comparison showing the drone's ground clearance before and after the airdrop system installation, highlighting its function as additional landing gear.

6. OPERATING INSTRUCTIONS

Understand the functions and operation of your LICHIFIT Airdrop System.

6.1. Component Overview

Easy to Use

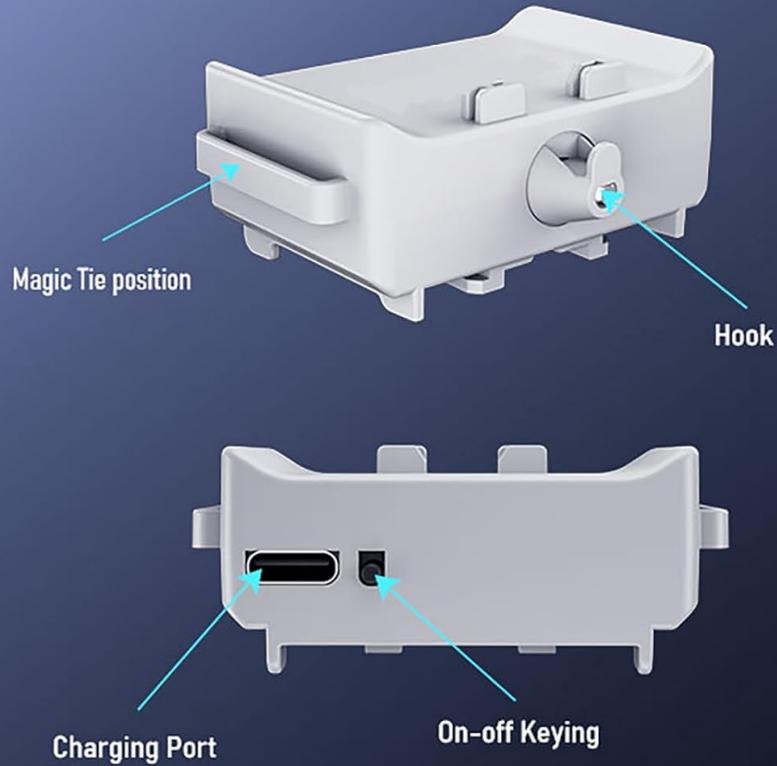


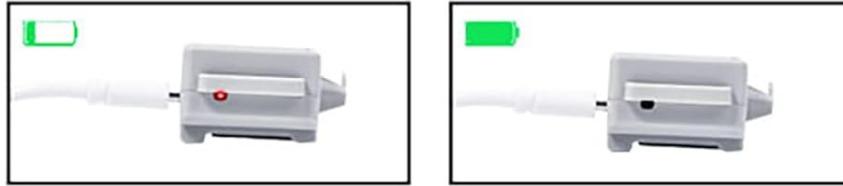
Image: Detailed view of the airdrop system unit, indicating the Magic Tie attachment point, the release hook, the USB-C charging port, and the power/function button.

6.2. Charging the System

Connect the provided charging cable to the charging port on the airdrop system and a 5V USB power source. The red indicator light will be continuously on during charging. Once fully charged, the red light will turn off. A full charge takes approximately 1 hour and allows for about 400 release operations.

How to use

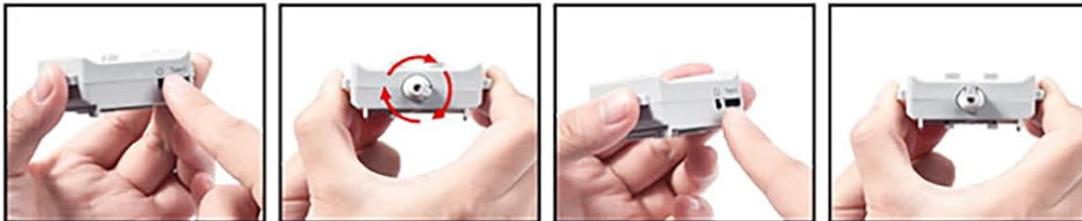
Charging instruction: The red light is always on when charging and off when fully charged.



Power on: Briefly press the switch button, the green light of the Air-dropping system flashes, and shake it at will to calibrate its posture. If the green light is always on, the calibration is successful;



Adjust the hook: Under the power-on state, press and hold the 3S switch button, and then press and hold the hook rotation adjustment direction. Release the switch button when the hook is adjusted upward, and the hook stops rotating at that point.



Power off: Double-click and hold the switch button for 2S, then the Air-dropping system will be turned off and the green light will be off

Release instructions: the drone control gear is switched to N gear, and the air-dropping system can be completed by rotating in the same direction for 10s when it is turned on.

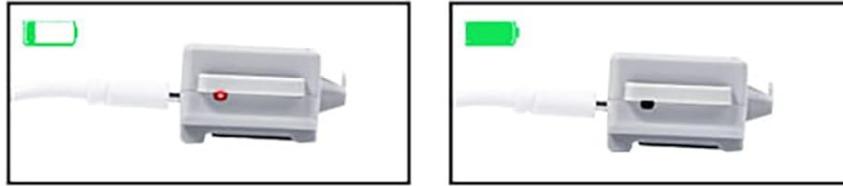
Image: Visual guide for charging the airdrop system, showing the red indicator light status during charging and when complete.

6.3. Power On and Calibration

To power on the system, briefly press the switch button. The green indicator light will flash. Gently shake the unit to calibrate its posture. If the green light remains continuously on, the calibration is successful and the system is ready for use.

How to use

Charging instruction: The red light is always on when charging and off when fully charged.



Power on: Briefly press the switch button, the green light of the Air-dropping system flashes, and shake it at will to calibrate its posture. If the green light is always on, the calibration is successful;



Adjust the hook: Under the power-on state, press and hold the 3S switch button, and then press and hold the hook rotation adjustment direction. Release the switch button when the hook is adjusted upward, and the hook stops rotating at that point.



Power off: Double-click and hold the switch button for 2S, then the Air-dropping system will be turned off and the green light will be off

Release instructions: the drone control gear is switched to N gear, and the air-dropping system can be completed by rotating in the same direction for 10s when it is turned on.

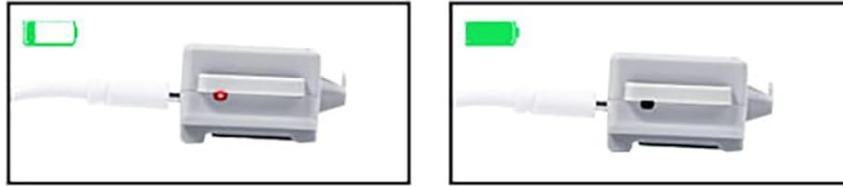
Image: Steps for powering on the airdrop system, including pressing the button, shaking for calibration, and observing the green light for successful calibration.

6.4. Adjusting the Hook

While the system is powered on, press and hold the switch button for 3 seconds. Then, continue to press and hold the switch button to adjust the hook's rotation direction. Release the button when the hook is in the desired upward position, and it will stop rotating.

How to use

Charging instruction: The red light is always on when charging and off when fully charged.



Power on: Briefly press the switch button, the green light of the Air-dropping system flashes, and shake it at will to calibrate its posture. If the green light is always on, the calibration is successful;



Adjust the hook: Under the power-on state, press and hold the 3S switch button, and then press and hold the hook rotation adjustment direction. Release the switch button when the hook is adjusted upward, and the hook stops rotating at that point.



Power off: Double-click and hold the switch button for 2S, then the Air-dropping system will be turned off and the green light will be off

Release instructions: the drone control gear is switched to N gear, and the air-dropping system can be completed by rotating in the same direction for 10s when it is turned on.

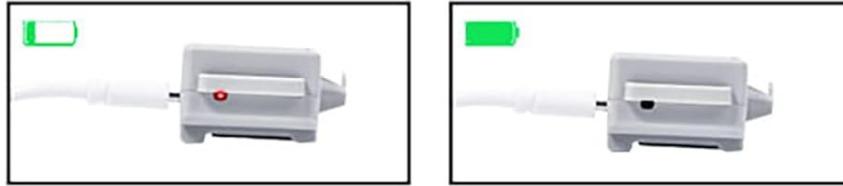
Image: Instructions for adjusting the hook's position by pressing and holding the power button.

6.5. Payload Release

To release the payload, ensure your drone is hovering stably in normal flight mode. Rotate the drone in place in the same direction for 10 seconds. The airdrop system will detect this specific rotation pattern and trigger the release mechanism. This method eliminates the need for additional remote controllers.

How to use

Charging instruction: The red light is always on when charging and off when fully charged.



Power on: Briefly press the switch button, the green light of the Air-dropping system flashes, and shake it at will to calibrate its posture. If the green light is always on, the calibration is successful;



Adjust the hook: Under the power-on state, press and hold the 3S switch button, and then press and hold the hook rotation adjustment direction. Release the switch button when the hook is adjusted upward, and the hook stops rotating at that point.



Power off: Double-click and hold the switch button for 2S, then the Air-dropping system will be turned off and the green light will be off

Release instructions: the drone control gear is switched to N gear, and the air-dropping system can be completed by rotating in the same direction for 10s when it is turned on.

Image: Visual representation of the drone rotating in place to trigger the payload release.

New and upgraded 10s targeted release

Farewell to the market's APP and accompanying remote control operations. Through program settings, drones can perform preset states within the remote control range, achieving targeted placement of items



Unable to release beyond the attached
remote control distance



Remote control range rotates in place
for 10s, easy to release

Image: An illustration of the drone executing the 10-second rotation for targeted payload release, demonstrating the system's operational method.

Suitable for multiple scenarios

Flowers, gift boxes, rings, bait,
and other items weighing less than 60g



Image: Examples of how the airdrop system can be used for different purposes, such as special deliveries or fishing, with payloads up to 60g.

6.6. Power Off

To power off the system, double-click and hold the switch button for 2 seconds. The Air-dropping system will turn off, and the green light will extinguish.

7. MAINTENANCE

- Keep the airdrop system clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Store the system in a cool, dry place when not in use.
- Avoid exposing the system to extreme temperatures or direct sunlight for prolonged periods.
- Regularly inspect the Velcro strap and release mechanism for wear and tear. Replace if necessary.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
System does not power on.	Low battery or no charge.	Charge the system fully (refer to Section 6.2).
Green light not solid after power on.	Calibration failed or incomplete.	Gently shake the unit again after powering on to complete calibration (refer to Section 6.3).
Payload does not release.	Incorrect drone rotation or insufficient duration.	Ensure the drone is hovering stably and rotate it consistently in one direction for a full 10 seconds (refer to Section 6.5). Verify the system is powered on and calibrated.
System falls off drone during flight.	Velcro strap not securely fastened.	Re-install the system, ensuring the Velcro strap is tightly secured around the drone's fuselage (refer to Section 5).

9. PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video demonstrating the installation and operation of the LICHIFIT Drone Airdrop System on a DJI Mini drone, including payload release.

10. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer's policy where the product was purchased or contact LICHIFIT customer service through their official channels. Keep your proof of purchase for warranty claims.