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STARTRC KYF-12030145

STARTRC Drone Airdrop System for DJI Mini 5 Pro Instruction Manual

Model: Airdrop System for Mini 5 Pro (KYF-12030145)

Brand: STARTRC

1. PRODUCT OVERVIEW

The STARTRC Drone Airdrop System is designed specifically for the DJI Mini 5 Pro drone, integrating both propeller guard and payload deployment functionalities. This device allows for controlled release of lightweight items during flight, enhancing the drone's utility for various applications.

The system utilizes the drone's auxiliary lights for deployment control, offering a seamless and extended range operation.



Image 1.1: The STARTRC Drone Airdrop System mounted on a DJI Mini 5 Pro drone.

2. PACKAGE CONTENTS

Verify that all components are present in the package:

- STARTRC Drone Airdrop System Unit
- Propeller Restraint Assembly
- Charging Cable (Type-C)
- Instruction Manual (this document)

3. SETUP AND INSTALLATION

Follow these steps to correctly install the airdrop system on your DJI Mini 5 Pro drone:

1. **Prepare the Propeller Restraint Assembly:** Pull the orange buttons on both sides of the propeller restraint assembly to open its stand.
2. **Attach the Assembly to the Drone:** Slide both bracket sections of the propeller restraint assembly through the sides of the drone's body and snap them into place. Ensure a stable fit that prevents wobbling or loosening. This assembly does not obstruct the drone's visual positioning sensors.

3. **Align the Light Attachment:** The light attachment on the airdrop system must align with the drone's light unit. Ensure both the upper and lower brackets are fully engaged.
4. **Install the Dispenser Module:** Install the dispenser module into the bracket as shown in the accompanying image.
5. **Adjust the Hook:** Check and use the side button on the dispenser module to adjust the hook so that it faces upward, ready to hold the payload.
6. **Attach Payload:** Attach the payload to the drone using a rope and position it at the rear of the drone. The combined weight of the deployer and propeller restraint assembly is approximately 49g.



Image 3.1: Step-by-step installation guide for the airdrop system.

Important: The maximum load capacity for both loaded and dropped items is approximately 60g. Exceeding this limit may affect drone flight performance and safety.

4. OPERATING INSTRUCTIONS

The airdrop system's deployment is controlled via the DJI remote controller by utilizing the drone's auxiliary lights. This photo-sensitive setting allows for precise control over item release.

4.1. Remote Control Setup (DJI RC 2 / RC N2)

To enable deployment, you need to configure a custom button on your DJI remote controller to activate the auxiliary light. The following video demonstrates this process for both RC 2 and RC N2 remote controllers.

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Video 4.1: Instructions for configuring remote control buttons to activate the auxiliary LED for payload release.

4.2. Deployment Procedure

1. Ensure the airdrop system is properly installed and the payload is securely attached (within the 60g limit).
2. Power on your DJI Mini 5 Pro drone and remote controller.
3. Fly the drone to the desired deployment location.
4. Activate the drone's auxiliary lights using the configured button on your remote controller. Activating the auxiliary lights initiates deployment.
5. Deactivating the auxiliary lights concludes the deployment.

The deployment range matches the drone's remote control distance, offering extensive operational flexibility.

Working Principle

Control the aircraft's down viewlights through the aircraft's own remote control to drop items.



Image 4.2: Visual representation of the airdrop system's working principle.



Image 4.3: Illustration of the extended deployment range using the drone's auxiliary lights.

Your browser does not support the video tag.

Video 4.4: Demonstration of the drone airdrop system in action, showing payload delivery.

5. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your airdrop system.

5.1. Charging the Unit

The airdrop system has a built-in 70mAh battery. To charge:

- Connect the provided Type-C charging cable to the charging port on the unit.
- Connect the other end of the cable to a standard USB power source (e.g., computer, wall adapter).
- A full charge takes approximately half an hour.
- After a full charge, the unit can be used approximately 400 times.



Image 5.1: Product details showing the Type-C charging port.

5.2. Cleaning and Storage

- Wipe the unit with a soft, dry cloth after use.
- Avoid exposure to extreme temperatures or moisture.
- Store the unit in a cool, dry place when not in use.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the STARTRC Drone Airdrop System.

Problem	Possible Cause	Solution
Airdrop system does not deploy.	<ul style="list-style-type: none"> ◦ Battery is low or uncharged. ◦ Auxiliary light not activated or configured incorrectly. ◦ System not powered on. 	<ul style="list-style-type: none"> ◦ Charge the airdrop system battery fully. ◦ Verify remote control button configuration (refer to Section 4.1). ◦ Ensure the airdrop system is switched ON.

Problem	Possible Cause	Solution
Payload does not release smoothly.	<ul style="list-style-type: none"> ◦ Payload exceeds 60g maximum limit. ◦ Payload is improperly secured or tangled. 	<ul style="list-style-type: none"> ◦ Reduce payload weight to under 60g. ◦ Ensure payload is securely and freely attached, preventing entanglement with drone components.
System feels loose on the drone.	<ul style="list-style-type: none"> ◦ Propeller restraint assembly not fully snapped into place. ◦ Light attachment not fully engaged. 	<ul style="list-style-type: none"> ◦ Re-check installation steps (refer to Section 3) to ensure all components are securely fastened.

7. SPECIFICATIONS

Feature	Detail
Brand	STARTRC
Model Name	Airdrop System for Mini 5 Pro
Model Number	KYF-12030145
Compatibility	DJI Mini 5 Pro
Item Weight (System + Restraint)	49g (approx.)
Maximum Load Capacity	60g
Battery Capacity	70mAh
Charging Time	Approx. 0.5 hours
Uses per Charge	Approx. 400 times
Control Type	Remote Control (via drone auxiliary light)
Material	ABS+PC
Item Dimensions (L x W x H)	5.28"L x 1.42"W x 2.88"H

Maximum Load

The load capacity of the Mini 5 PRO is about 60g



Image 7.1: Maximum load capacity illustration.

8. SAFETY GUIDELINES

- Always ensure the payload weight does not exceed 60g. Overloading can compromise drone stability and flight safety.
- Before each flight, verify that the airdrop system is securely attached to the drone and the payload is properly fastened.
- Avoid flying in strong winds or adverse weather conditions when carrying a payload.
- Operate the drone responsibly and in accordance with local aviation regulations.
- Do not drop items over people, animals, or property that could be damaged.
- Ensure the payload string is not excessively long or prone to entanglement with propellers.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the official STARTRC website or contact their customer service directly. Specific warranty terms and support contacts may vary by region. Please retain your proof of purchase for any warranty claims.

