



Orion AP3-P3

Pliabot® Aerial Tethered Cleaning System



萬勛國際有限公司

Wisson International Limited

Read Before Use

Thank you for purchasing our product.

This manual provides details on the purpose, specifications, operation, precautions, and maintenance of the Orion AP3-P3 Pliabot® Aerial Tethered Cleaning System (hereafter referred to as AP3-P3). To ensure safe operation and optimal performance, please read this manual carefully before use. Keep it handy for future reference.

About This Manual

- Read this manual thoroughly before installing and using the AP3-P3.
- Store this manual properly for future reference.
- Pay attention to all warnings in the manual and on the AP3-P3.
- Follow all instructions strictly.
- Illustrations are for understanding purposes and can be seen as schematic diagrams.
- Components might be upgraded based on customer feedback, so some elements might differ from the illustrations or descriptions.
- Technical changes made after the finalization of this manual will not be notified.

The data in this manual are accurate as of its finalization. Since the platform is under continuous development, there may be discrepancies between the AP3-P3 and the descriptions herein. The data, illustrations, or descriptions should not be used as grounds for any claims.

⚠ If selling or lending this product, ensure that the product is always accompanied by its complete documentation.

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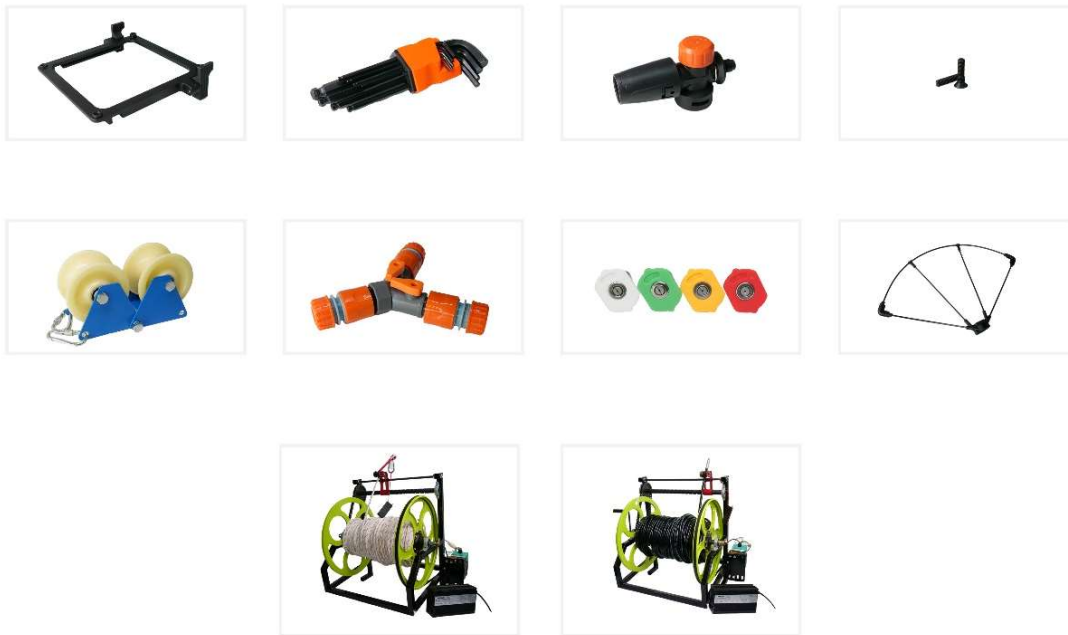
1. Product Profile

1.1. Introduction

The Orion AP3-P3 Pliabot® Aerial Tethered Cleaning System is compatible with drones with a payload of 3-10kg (6-22lb). It offers an efficient and versatile high-pressure aerial cleaning solution for various scenarios, including building exteriors, solar panels, insulator strings, and tall structures.

1.2. Product List

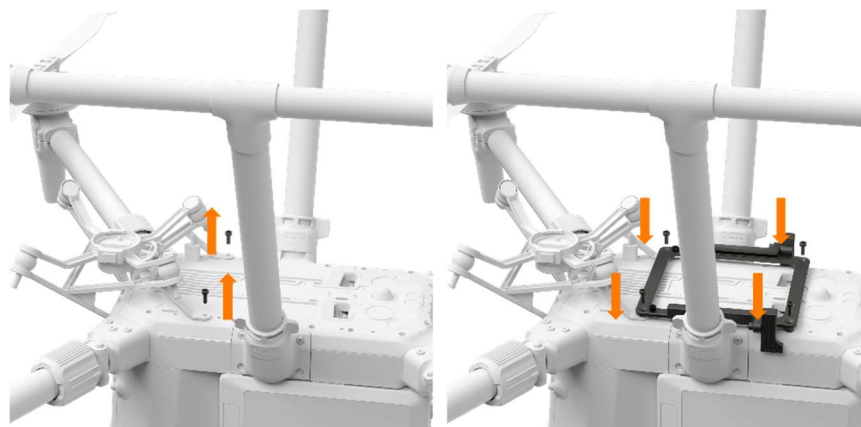
No.	Item	Quantity
1	AP3-P3 Device	1
2	Propeller Guards	2
3	Foldable Bucket	1
4	Hose (150m)	1
5	Safety Rope (150m)	1
6	Measuring cylinder (5L)	1
7	Foam Nozzle	2
8	High Pressure Spray Nozzle Set (0°, 15°, 25°, 40°)	1
9	Shut Off Valve	1
10	Fixed Pulley	4
11	Hose Reel	2
12	Hex Key	1
13	Screws	6
14	Drone Adapter	1
15	User Manual	1



1.3. First Use

1.3.1. Installation of the Drone Adapter

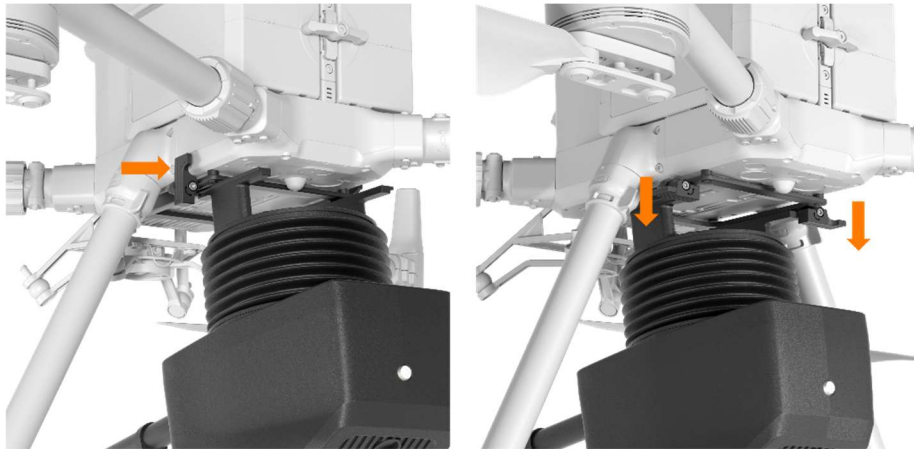
- Remove the two screws of the gimbal from the M300/M350 Drone (bottom side), and install the drone adapter for Ap3-p3.



1.3.2. Installing the Spraying Device

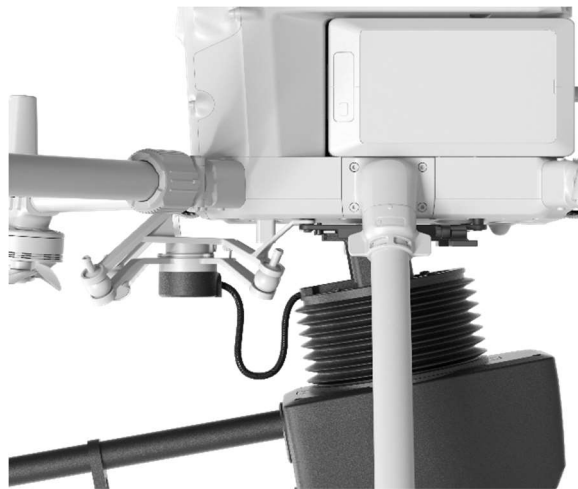
- Direct the spray arm of the spraying device towards the front of the drone, then slide the spraying device along the adapter track into the adapter, and rotate the

blockers on both sides of the bracket to block the track, preventing the spraying device from sliding out.



1.3.3. Connect the Spraying Device to the Drone via PSDK

- Insert the connector on the spraying device into the PSDK port on the drone.



1.3.4. To Spray Water

- Connect one end of the hose to the Ap3-p3 spraying device and the other end to an external pump.
- Ensure that the pump is positioned close to a reliable water source.
- Assemble the foldable bucket and fill it with the diluted cleaner.
- Using the Y-shaped connector, connect both the water source and the bucket faucet to the pump.

- Connect the pump to a stable power supply.
- Power on both the drone and the remote control.

1.3.5. Controller Operation

- After installing the spraying device, turn on the drone and remote. Open the DJI Pilot2 app to see the "Payload WX" info.
- In the flight view, you'll see a "PSDK" button and a second vision frame in the bottom right. Click the second perspective to switch to the spray's first-person view.

Icon	Function
	Slightly raise the nozzle angle
	Slightly lower the nozzle angle
	Reset the angle of the sprayer
	Display the actual distance between the nozzle and the object

1.3.6. Lighting Effects

Status	Effect
Yellow Flashing	Connecting to DJI PSDK
Solid Green	Startup complete, running normally
Red Flashing	System Booting / Abnormal status

2.Appendix

2.1. Performance Parameters

Parameter	Specification
Model	AP3-P3
Dimensions	936 x 146 x 192 mm / 36.8 x 5.7 x 7.5 in
Max Effective Spraying Distance	2m / 6.56 ft
Nominal Voltage	17.4V
Nominal Current	2A
Rotating Range of the Sprayer	+20° ~ -40°

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