# Agras T25P
Quick Start Guide

Introduction

The Agras T25P aircraft can be folded to reduce the body size, making it easier for transporting by one person.

The spraying system is equipped with the Magnetic Drive Impeller Pump and Dual Atomized Sprinkler, to ensure more efficient and precise pesticide spraying. It can also be expanded with two more sprinklers to meet different operation scenarios.

The aircraft is equipped with the phased array radar system and fisheye vision system to ensure the precise terrain follow flight and bypassing. Night operation safety is further improved with the 75W spotlight. The Low-Light Full-Color FPV camera with a virtual gimbal can automatically enable EIS (electronic image stabilization) to collect HD field images for local offline reconstruction to assist precise field planning.

Overview
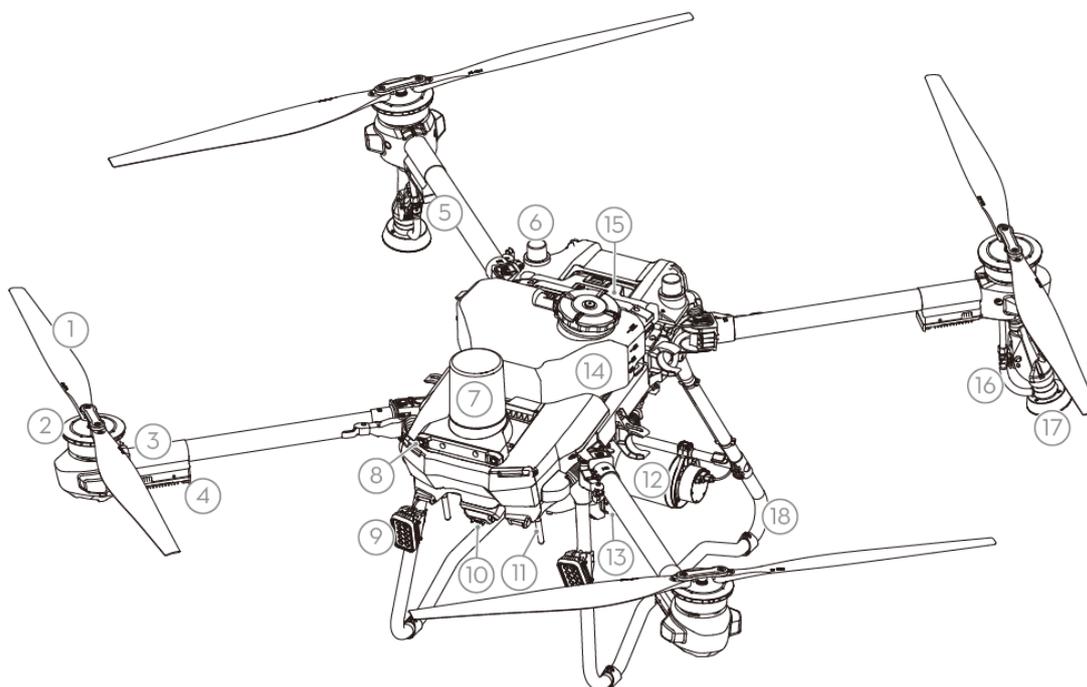
1. Propellers
2. Motors
3. ESCs
4. Aircraft Front Indicators (on two front arms)
5. Aircraft Rear Indicators (on two rear arms)
6. Onboard D-RTK™ Antennas
7. Forward Phased Array Radar
8. Binocular Fisheye Vision
9. Spotlight
10. Low-Light Full-Color FPV camera
11. External OCUSYNC™ Image Transmission Antennas
12. Rear Phased Array Radar
13. Delivery Pumps
14. Spray Tank
15. Intelligent Flight Battery
16. Spray Lance
17. Sprinklers
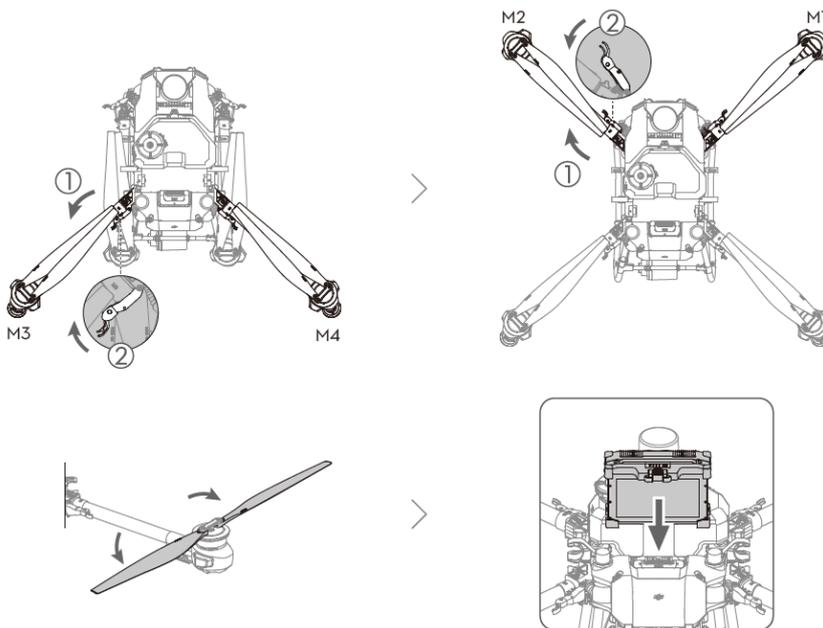18. Landing Gear

Using the T25P

Preparing the Intelligent Flight Battery

Only use official DJI flight batteries. Check the battery level before flying and charge according to the corresponding manual document.
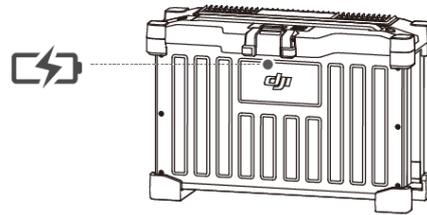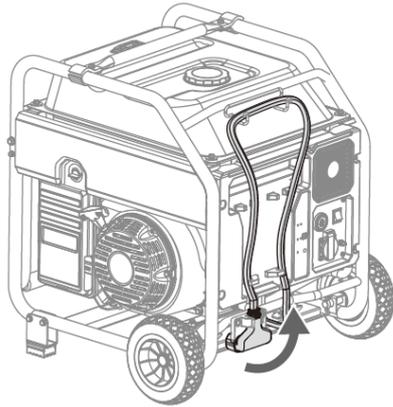
BAX702-15500mAh-52.22V

Preparing the Aircraft

Unfold the M3 and M4 arms, and fasten the two arm locks. Avoid pinching fingers.

Unfold the M1 and M2 arms, and fasten the two arm locks. Avoid pinching fingers.

Unfold the propeller blades.

Insert the Intelligent Flight Battery into the aircraft until you hear a click.

⚠	• Make sure that the battery is firmly inserted into the aircraft. Only insert or remove the battery when the aircraft is powered off.
	• To remove the battery, press and hold the clamp and lift the battery up.
	• Fold the M1 and M2 arms followed by the M3 and M4 arms. Otherwise, the arms may be damaged.

Flight

In order for the aircraft to automatically take off and perform an operation, it is recommended to creat a plan for a field and select an operation before takeoff. Refer to the Starting Operations section for more information. For other scenarios, take off and land manually as follows.

Getting Ready for Takeoff

A. Place the aircraft on open, flat ground with the rear of the aircraft facing toward you.
B. Make sure that the propellers are securely mounted, there are no foreign objects in or on the motors and propellers, the propeller blades and arms are unfolded, and the arm locks are firmly fastened.
C. Make sure that the spray tank and flight battery are firmly in place.
D. Power on the remote controller, make sure that the DJI Agras app is open, and power on the aircraft. Tap Start in the home screen of the app to enter Operation View. Make sure that the GNSS signals are strong and the screen shows Ready to GO (GNSS) or Ready to GO (RTK). Otherwise, the aircraft cannot take off.

> ☼ RTK positioning is recommended. In the app, go to Operation View, tap ⚙ > RTK, and select a method for receiving RTK signals.

Takeoff

Perform a Combination Stick Command (CSC) and push the throttle stick up to take off.
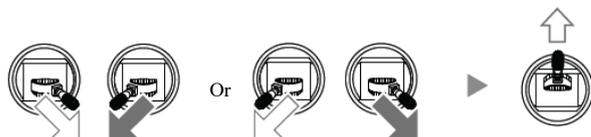
Throttle Stick (left stick in Mode 2)

Landing

Push the throttle stick down until the aircraft lands. When the aircraft has landed, push and hold the throttle stick down. The motors will stop after three seconds.

Throttle Stick (left stick in Mode 2)

> ⚠ • Spinning propellers can be dangerous. Stay away from spinning propellers and motors. DO NOT start the motors in confined spaced or where there are people nearby.
> • Maintain control of the remote controller as long as the motors are running.
> • After landing, power off the aircraft before turning off the remote controller.

Starting Operations

Refer to the user manual for more information about the Route Operation, A-B Route Operation, Manual Operation, and Fruit Tree modes, and on how to use functions such as Connection Routing, Operation Resumption, System Data Protection, and Empty Tank.

> ⚠ • Only take off in open areas and set an appropriate Connection Routing and RTH Altitude according to the operating environment.
> • An operation can be paused by moving the control stick slightly. The aircraft will hover and record the breakpoint. After that, the aircraft can be controlled manually. Select the operation again to continue. The aircraft will return to the breakpoint automatically and resume the operation. Pay attention to aircraft safety when returning to a breakpoint.
> • In Route and Fruit Tree Operation modes, the aircraft is able to circumvent obstacles, which is disabled by default and can be enabled in the app. If the function is enabled and the aircraft detects obstacles, the aircraft will slow down and circumvent the obstacles and return to the original flight path.
> • Users can set the action the aircraft will perform after the operation is completed in the app.

Specifications

Aircraft (Model: 3WWDZ-20C)	
Weight	26 kg (excl. battery) 32.8 kg (incl. battery)
Max Takeoff Weight	52.8 kg (at sea level)
Dimensions	2650 × 2700 × 820 mm 1520 × 1580 × 820 mm 1120 × 700 × 850 mm
Operating Frequency	2.4000-2.4835 GHz 5.725-5.850 GHz
Transmitter Power (EIRP)	2.4 GHz: <33 dBm (FCC), <20 dBm (CE/SRRC/MIC) 5.8 GHz: <33 dBm (FCC), <30 dBm (SRRC), <14 dBm (CE)
RTK/GNSS Operating Frequency	RTK: GPS L1/L2, GLONASS L1/L2, BeiDou B1/B2/B3, Galileo E1/E5b GNSS: GPS L1, SBAS, BeiDou B1, Galileo E1, QZSS L1
Operating Temperature	0° to 40° C (32° to 104° F)
Phased Array Radar System	
Operating Frequency	24.05-24.25 GHz (NCC/FCC/MIC/KC/CE)
Power Consumption	23 W (forward) 18 W (rear)
Transmitter Power (EIRP)	<20 dBm (NCC/MIC/KC/CE/FCC)
Operating Voltage	DC 15 V
Operating Temperature	0° to 40° C (32° to 104° F)

FCC Compliance Notice

Supplier's Declaration of Conformity

Product name: AGRAS T60, AGRAS T25P

Model Number: 3WWDZ-50A, 3WWDZ-20C

Responsible Party: DJI Research LLC

Responsible Party Address: 17301 Edwards Road, Cerritos, CA 90703

Website: www.dji.com

We, DJI Research LLC, being the responsible party, declares that the above mentioned model was tested to demonstrate complying with all applicable FCC rules and regulations.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

RF Exposure Information

The aircraft complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 25cm during normal operation. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED Compliance Notice

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1)This device may not cause interference.(2)This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :(1)L'appareil ne doit pas produire de brouillage; (2)L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

The aircraft complies with RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 25cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet équipement est conforme aux limites dexposition aux radiations CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 25 cm entre le radiateur et votre corps.

EU Compliance Statement: SZ DJI TECHNOLOGY CO., LTD. hereby declares that this device (AGRAS T60, AGRAS T25P) is in compliance with the essential requirements and other relevant provisions of the Directive 2014/53/EU.

A copy of the EU Declaration of Conformity is available online at www.dji.com/euro-compliance

EU contact address: DJI GmbH, Industriestrasse 12, 97618, Niederlauer, Germany