Quick Start Guide

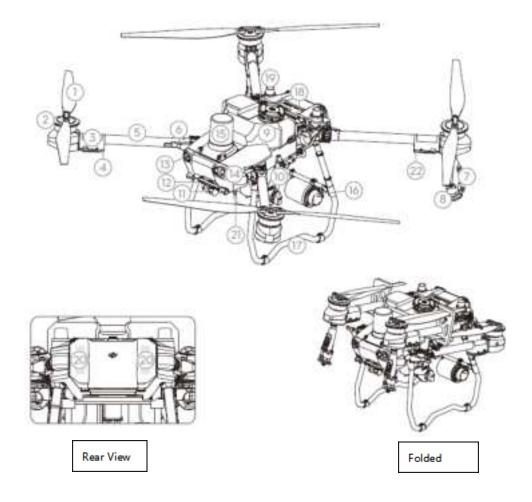
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Aircraft

The Agras T25 aircraft has a truss-style body that comes with pitched arms that can be folded, making it easier to transport. The integrated spraying system can quickly transform into the spreading configuration with a spreading payload of 25 kg.

The aircraft is equipped with the phased array radar system and binocular vision system, including downward and forward binocular vision, forward and rear phased array radar. The systems provide 360-degree omnidirectional obstacle sensing to ensure operational safety. The ultra HD FPV camera with a tiltable gimbal can automatically collect HD field images for local offline reconstruction to assist precise field planning.

The Coaxial Dual Propeller structure brings a strong wind field. Pesticides can penetrate thick canopies to allow thorough spraying. The spraying system is equipped with the Magnetic Drive Impeller Pump, Dual Atomized Sprinkler, Anti-Drip Centrifugal Valve and solenoid valve, to ensure more efficient and precise pesticide spraying, as well as save liquid pesticide. The spraying system can be upgraded with two more sprinklers to meet different operation scenarios.





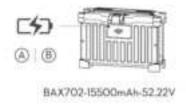
- 1. Propellers
- 2. Motors
- 3. ESCs
- 4. Aircraft Front Indicators (on two front arms)
- 5. Frame Arms
- 6. Folding Detection Sensors (built-in)
- 7. Spray Lance
- 8. Sprinklers
- 9. Spread Tank
- 10. Delivery Pumps
- 11. FPV PTZ camera
- 12. Downward Binocular Vision

- 13. Forward Binocular Vision
- 14. Spotlights
- 15. Forward Phased Array Radar
- 16. Rear Phased Array Radar
- 17. Landing Gear
- 18. Intelligent Flight Battery
- 19. Onboard D-RTKTM Antennas
- 20. Internal OCUSYNCTM Image Transmission Antennas
- 21. External OcuSync Image Transmission Antennas
- 22. Aircraft Status Indicators (on two rear arms)

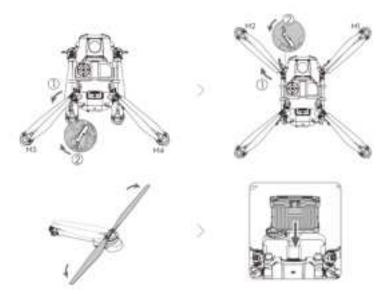
Using the T25

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.



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.

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.
- E. 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.

Calibrating the Flow Meter

Make sure to calibrate the flow meter in the following situations:

Change liquid payload with different viscosity.

The difference between the actual area and planned area is more than 15% after the first operation.

Calibrating procedure

- A. Get Ready to Calibrate
- ① Fill the spray tank with approximately 2 L of water.

- ② Press the Spray button to start or stop spraying manually in order to exhaust air.
- B. Calibrating the flow meter
- ① In the app, go to Operation View, tap ** > **, then tap Calibration on the right of the flow meter calibration section.
- ② Tap Start Calibration and calibration will start automatically. The result of the calibration will be displayed in the app when completed.
- After calibrating successfully, users can proceed with the operation.
- If calibration fails, tap the reminder to view and resolve the problem. Afterwards, recalibrate and wait for successful calibration.

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.

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. There are two methods to stop the motors after landing.

Method 1: When the aircraft has landed, push and hold the throttle stick down. The motors will stop after three seconds.

Method 2: When the aircraft has landed, push the throttle stick down, and perform the same CSC that was used to start the motors. Release both sticks once the motors have stopped.





- 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.
- DO NOT stop the motors mid-flight. Otherwise, the aircraft will be crashed. Stop the motors only in an emergency situation to reduce the risk of damage or injury.
- It is recommended to use Method 1 to stop the motors. When using the Method 2 to stop the motors, the aircraft may roll over if it is not completely grounded. Use Method 2 with caution.

• After landing, power off the aircraft before turning off the remote controller.

Starting Operations

Users can perform aerial surveying for the operation area in the DJI Agras app, receive an HD map via offline reconstruction in the remote controller. Field planning and identifying can be performed on the HD map before route operation. The following descriptions use Crosshair and Route Mapping and Route Mode as an example.

- 1. Power on the remote controller and then the aircraft. Enter Operation View in the DJI Agras app.
- 2. Tap Mode button on the upper left corner and select Route Mapping in the Mapping panel.
- 3. Tap on the bottom right of the sreen and select Area Route or Boundary Route. Then tap in middle of the right screen to select Crosshair in the Add Point list.
- 4. Drag the map and tap Add to add a point at the crosshairs. Tap to save.
- 5. Tap and move the slider to launch the aircraft. The aircraft will perform the mapping operation along the route and land automatically.
- 6. Wait for the app to complete reconstruction. The reconstruction result will be displayed on the original map.
- 7. Tap Identify Field, then tap an identified field to select it and adjust the boundary.
- 8. Tap Mode button on the upper left and select Route in the Agriculture panel.
- 9. Tap on the left and select a field in the field list.
- 10. Tap Edit to edit field and set route parameters. Drag to adjust the flight direction of the route. Then save.
- 11. Tap ____ to use the field. Set task parameters and tap ____ to save.
- 12. Tap , check the aircraft status and task settings, and move the slider to take off. The aircraft will perform the operation automatically.



- 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.

More Operation Modes and Functions

Refer to the user manual for more information about the 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.

Specifications

Aircraft (Model: 3WWDZ-20B)	
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), <23 dBm (SRRC), <14 dBm (CE)
RTK/GNSS Operating	RTK: GPS L1/L2, GLONASS F1/F2, BeiDou B1I/B2I/B3I, Galileo E1/E5b,
Frequency	QZSS L1/L2
	GNSS: GPS L1, GLONASS F1, BeiDou B1I, Galileo E1, QZSS L1
Operating Temperature	0° to 45° C (32° to 113° F)
Forward Phased Array Radar (Model: RD241608RF)	
Operating Frequency	24.05-24.25 GHz (NCC/FCC/MIC/KC/CE)
Power Consumption	23 W
Transmitter Power (EIRP)	<20 dBm (NCC/MIC/KC/CE/FCC)
Operating Voltage	DC 15 V
Operating Temperature	0° to 45° C (32° to 113° F)
Rear Phased Array Radar (Model: RD241608RB)	
Operating Frequency	24.05-24.25 GHz (NCC/FCC/MIC/KC/CE)
Power Consumption	18 W
Transmitter Power (EIRP)	<20 dBm (NCC/MIC/KC/CE/FCC)
Operating Voltage	DC 15 V
Operating Temperature	0° to 45° C (32° to 113° F)

FCC compliance statement

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.

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.

FCC Radiation Exposure statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

ISED compliance statement

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.

ISED Radiation Exposure statement

 $This \ equipment \ complies \ with \ IC \ RSS-102 \ radiation \ exposure \ limits \ set \ for th \ for \ an \ uncontrolled \ environment.$

This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body.

Cet équipement est conforme aux limites d'exposition aux radiations IC CNR-102 établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.