

dji AGRICULTURE

One for All

AGRAS T40



dji AGRICULTURE

Better Growth, Better Life.

AGRAS T40

The AGRAS T40 is equipped with the revolutionary Coaxial Twin Rotor design, enabling it to carry a spraying payload of 40 kg and a spreading payload of 50 kg (70 L).^[1] The aircraft is built in with a Dual Atomized Spraying System, DJI Terra, Active Phased array Radar and Binocular Vision. It supports multiple missions from surveying, mapping, to spraying and spreading, helping you achieve ultimate precision in your agricultural operations.



50KG

50kg spreading payload^[1]
40kg spraying payload^[1]



Active Phased
Array Radar +
Binocular Vision



Dual Atomized
Spraying System



Supports flight
spraying/spreading
and RC mapping

IPX6K

Core Modules^[2]
IPX6K protection
grade



EFI Generator^[3]
15% fuel saving

Improved efficiency with coaxial twin rotor design

- 11 m spread width^[4]
- Field operation efficiency of 21.33 ha/hour^[5]
- Orchard operation efficiency of 4 ha/hour^[6]
- Spreading efficiency of 1.5 tonnes/hour^[7]

Superior dispense rate of 12 L/min

- Magnetic transmission design, prevention of chemical corrosion
- Two atomizing centrifugal sprinklers for even spraying
- Proprietary centrifugal valve to prevent leakage
- Real-time monitoring of pesticide levels to estimate when reload is needed

Omnidirectional Sensors for Greater Safety

- Obstacle avoidance with Active Phased Array Radar + Binocular Vision
- 360°Omnidirectional Obstacle Sensing, intelligent terrain following^[8]
- Radar detection range of 50 m^[9]
- 3D terrain following ensures smooth flight over complex terrain

Versatile, perfect for mapping or spraying/spreading

- FPV ultra-HD 12MP camera
- Adjustable gimbal angles for real-time data acquisition
- Works with the D-RTK 2 Mobile Station for mapping
- Automatic detection of boundaries and obstacles

Large-screen controller for easy mapping

- Coverage of 6.67 hectares in 10 minutes^[10]
- Intelligent flight path planning to minimize wasted journeys
- Large 7-inch High Brightness Screen
- Octa-core processor for smoother operation

12000W Multifunctional Inverter Generator^[11]

- Latest electrojet technology for greater fuel savings
- Supports 1500W AC output
- 1,500 charge cycles, fast charging in 9 minutes^[12]

- Data was measured at sea level. The payload weight is greatly affected by the ambient temperature and altitude. The payload weight needs to be reduced by 10 kg for every 1,000m increase in altitude. The DJI Agras app will recommend the payload weight according to the current status and surroundings of the aircraft. When adding materials, the maximum weight should not exceed the recommended value, otherwise flight safety may be compromised.
- The core modules include: the avionics module, radio frequency module, breakout board, power distribution board, Electronic Speed Controller, Magnetic Drive Impeller Pump, Dual Atomized Centrifugal Sprinkler, Active Phased Array Omnidirectional/Backward and Downward Radar, Binocular Vision System, UHD FPV camera, and LED supplement light. The IPX6K rating is not permanent and may reduce over time after long-term use due to aging and wear.
- When charging at 9 kW, an EFI generator consumes 15% less fuel compared to a carburetor generator.
- An effective spray width is when the droplet quantity is equal to or greater than 20 pcs/cm, as measured with water sensitive paper.
- Data was subject to the operating environment and parameters. T40 flight parameters for paddy field operations: consumption rate 15 L/ha, spray width 11 m, flight speed 7 m/s, flight altitude 3 m
- Data was subject to the operating environment and parameters. T40 flight parameters for citrus operations: consumption rate 75 L/ha, spray width 4 m, flight speed 3 m/s, flight altitude 2 m
- Data was measured with urea and subject to the operating environment and parameters. Actual data may vary in operation. T40 flight parameters: consumption rate 149 kg/ha, spread width 7 m, flight speed 7 m/s, flight altitude 3 m, spreading disc rotation speed 1,000 rpm. The area is free of obstructions and in a regular terrain shape. The fertilizers are prepared in advance and can be loaded quickly. The effective detection range varies depending on the size and material of the obstacle. Obstacle sensing may malfunction or be invalid in areas outside of the effective detection range.
- The effective detection range varies depending on the size and material of the obstacle. Obstacle sensing may malfunction or be invalid in areas outside of the effective detection range.
- The effective sensing range varies depending on the material, position, shape, and other properties of the obstacle.
- The remote controller's mapping time for paddy fields, which can be affected by the firmware version, survey target, and other relevant factors.
- To purchase the Generator, please contact our local DJI dealers.
- Batteries are covered by warranty for up to 1,500 charging cycles or 12 months, whichever ends first. The 9-minute fast charging means charging the battery from 30% to 95% power. Factors impacting charging time: the altitude of the charging station; and the battery cell's temperature is in the range of 15° to 70°C.

The parameters above were measured using a mass-produced AGRAS T40 in a controlled environment. For specific parameters, please visit: <https://www.dji.com/t40>.