



dji AGRICULTURE



AGRAS T40 FAQ Brochure



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*The product information provided in this manual is for reference purposes only. Actual product performance may vary depending on factors such as the environment of use, user habits, etc.



How much payload can the T40 carry? How high, fast, and far can it fly? How efficiently can it work?

A: Information on the T40's operational efficiency can be found in the following table:

Model	T40
Spraying Efficiency	Max payload 40 kg ^[1] Up to 21.3 ha/hour for field operations ^[2] Up to 4 ha/hour for orchard operations ^[3]
Spreading Efficiency	Max payload 50 kg, max capacity 70 L ^[4] Max fertilizer spreading rate 1.5 t/h ^[5]
Flight Performance	Max flight altitude 100 m, max flight distance 2 km, and top flight speed 10 m/s ^[6]

[1] 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. The max payload weight must not exceed the recommended limit, otherwise flight safety may be compromised.

[2] Data was subject to the operating environment and parameters. T40 flight parameters: Consumption rate 15 L/ha, spray width 11 m, flight speed 7 m/s, flight altitude 3 m.

[3] Data was subject to the operating environment and parameters. T40 flight parameters: Consumption rate 75 L/ha, spray width 4 m, flight speed 3 m/s, flight altitude 2 m.

[4] Urea, seeds, and feed have small bulk density. The volume of their particles weighing 50 kg will exceed 50 L.

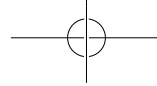
[5] Data was measured with urea, and subject to the operating environment and parameters. T40 flight parameters: Consumption rate 150 kg/ha, spray width 7 m, flight speed 7 m/s, flight altitude 3 m, spreading disc rotation speed 1,000 rpm. The area is free of obstructions and in a regular terrain shape. The fertilizers are prepared in advance and can be loaded quickly.

[6] Actual flight distance is related to flight altitude, blockage of signals from the remote controller and aircraft, etc.

What do the different T40 combos contain? How much is the price? What additional accessories are available?

A: DJI Agriculture offers both the Advanced and Standard Combos. Please refer to the table below for the contents and prices of each Combo.

T40 Advanced Combo	T40 Standard Combo
please edit based on the accessorie and package prices	please edit based on the accessorie and package prices



What are the advantages of the T40's spraying system?

A: The T40's Spraying System offers high flow rate and good atomization, supports powder spraying, and is easy to maintain.

01 Good atomization

The T40's dual atomized centrifugal sprinkler nebulizes particles evenly, while the droplet size is adjustable for different usage such as disease prevention and insecticide spraying, for greater penetration and efficacy.

02 High flow rate

The newly designed magnetic drive impeller pump has a high flow rate of 12 L/min, which is more efficient and optimal for spraying fruit trees.

03 Supports powder spraying

The magnetic drive impeller pump and dual atomized centrifugal sprinkler are resistant to clogging and compatible with a wide range of pesticides and fertilizers, including those in powder form.

04 Easy maintenance

The water pump has a quick removal structure for easy cleaning and maintenance.

What are the advantages of the T40's spreading system?

A: The T40's Spreading System has a large load capacity, supports fast spreading with high efficiency and good spreading uniformity, and is easy to maintain and remove.

01 Large load capacity

The T40's spreading system supports a maximum payload weight of 50 kg and capacity of up to 70 L.

02 High efficiency

The T40 has a high flow rate, which can go up to 90 kg/min for compound fertilizers. It also has larger tank inlet which reduces the fertilizer loading time by half a minute each time, and increases productivity by 0.5 to 1 hour a day.

03 Even spreading

The T40 has been widely used for direct sowing of rice, spreading of fertilizers, and several other scenarios.

04 Easy maintenance

The T40's Spreading System is equipped with a quick-removable hopper gate for easy cleaning, and supports water-washing to reduce corrosion;

05 Easy to remove

No removal of aircraft frame is needed for spreading or spraying with the T40, allowing you to easily switch between the two work modes.

What materials can be spread by the T40?

A: The T40 can spread dry solid particles with a diameter of 0.5-5 mm, such as common compound fertilizers, urea, rice, rapeseeds, animal feed, grass seeds, etc.

How long can the T40 aircraft fly on one battery? How many batteries does the aircraft have? How long does it take to charge a battery? How long is the warranty coverage for the batteries? Does the aircraft come with a heat sink?

A: The battery life and other relevant information on the batteries can be found in the following table:

Model	T40
Single battery life	One battery lasts for 6-8 mins, which can support the spraying of one bottle of pesticides or three to four crates of fertilizers. (Actual efficiency depends on consumption per hectare and land size.)
Charging Efficiency	Approximately 9 to 12 minutes to charge from 30% to 95% ^[1]
Number of batteries included as standard	The Combo comes with two batteries, which have similar charging time and battery life. One battery can be charged while the other is in use. ^[1] Seamless connection
Battery Warranty	DJI Agriculture provides warranty for 12 months or up to 1,500 charging cycles.
Heat Sink	An air-cooled heat sink is included as standard, for fast cooling of batteries and proper charging in summer.



How many batteries can the D12000iE Generator charge with a full tank? Can mains electricity be used for charging? Can it charge other devices?

A: The number of charging cycles supported by the D12000iE Generator with a full tank and other relevant information can be found in the following table:

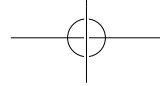
Model Number	D12000iE
Charging capacity with full tank	The ultra-large 30L fuel tank comes with EFI technology and 15% fuel saving ^[2] . With a full tank, the generator can charge 47 T40 batteries ^[3] .
Whether it can charge other devices	The generator supports 230V AC output at a max power of 1500W or 120V at 750W ^[4] , and can power the water pump, fertilizer/pesticide reloader, lights, and other components.

[1] Conditions that affect charging time: the altitude of the generator; fast charging is supported when the battery cell's temperature within 15°C to 70°C (59°F to 158°F).

[2] When charging at 9 kW, an EFI generator consumes 15% less fuel compared to a carburetor generator.

[3] Charging from 30% to 95%, with the number of batteries chargeable depending on the battery level, idle time, altitude, and other factors.

[4] The actual power and voltage may vary according to local regulations.



In which directions can the T40 avoid obstacles? Does it support automatic bypass and obstacle avoidance?

A: The T40 is equipped with Active Phased Array Radar and Binocular Vision which support horizontal omnidirectional and upward obstacle avoidance.^[1]

Thanks to the combination of the radar and vision system, the T40 supports obstacle avoidance and bypassing in the aircraft nose direction^[1], and automatically selects horizontal bypass or automatic ascending bypass based on the size and position of the obstacle.

What are the highlights of the T40's surveying and mapping function?

A: Highlights of the T40 include the following:

- 1.The remote controller supports surveying and map generation **without internet connection** (internet is required for logging into your account, with only one login required every seven days; an internet connection is also required for flights using network RTK.)
- 2.It supports farmland surveys at the height of 30 meters as well as full-field and boundary surveying. Multiple resolution options are available. A single survey mission can cover up to 13.33 ha, with a max mapping speed of 6.67 ha in 10 mins^[2].
3. It supports orchard surveys at the height of 20 meters and is suitable for survey missions involving slopes with an incline of less than 15 degrees and a survey area of less than 3.33 ha in a single mission; the mapping speed for orchards is slightly slower than for farmlands;
- 4.AI intelligent recognition, **automatic detection of land boundaries and obstacles**, and automatic identification of fruit tree and obstacle types as well as fruit tree quantity in orchards.
- 5.Both the T30 and T10 can fly survey and mapping missions.
- 6.Low cost, **without the need to purchase high-spec computers and a Phantom 4 RTK aircraft** (suitable for orchards with hilly terrain and farmlands with a large area), but the purchase of an RTK Base Station or Network RTK is required for its use.

Does the T40 remote controller freeze when performing local mapping? How long can it run for? Does it support the three major network operators?

A: The T40's remote controller is equipped with an **octa-core processor**, which enables smooth mapping without lagging. The remote controller's **built-in battery** can last for 3.3 hours, while an optional external battery can provide an additional 2.7 hours of battery life.^[3]

Additionally, the T40's Remote Controller comes with a **wider range of physical buttons** for customization of more shortcut functions according to your needs. The **high-brightness 7-inch large screen** is also clearly visible even in the outdoors.

What improvements have been made to the T40's FPV feature compared to the previous generation?

A: The T40 features an Ultra-HD camera for clearer images. It has an adjustable FPV and supports real-time environment observation, waypoint planning, and can even generate HD images of farmlands and orchards.

What kinds of vehicles are recommended for transporting the T40?

A: The T40 has a foldable design that reduces the aircraft size by 70% for greater portability. You can select a suitable transport vehicle based on the scenarios below.

Scenario	Recommended Vehicle
Home orchards which involve less switching of locations	Three-wheeler
Large areas (more than 13.33 ha) with complex terrain	Pickup or box trucks
Operations that span different locations	Pickup or box trucks, vans

[1] Results are subject to the environment, flight speed, obstacle type, and other relevant factors

[2] The remote controller's mapping time can be affected by the firmware version, survey type, and other relevant factors.

[3] The battery life is subject to the operation of the remote controller and its environment of use.



About DJI Agriculture

Since 2012, DJI has been adapting drone technology to the field of agriculture. In 2015, it established the DJI Agriculture brand. Today, DJI Agriculture is committed to providing users with convenient, intelligent and reliable agricultural solutions, in a bid to transform the agricultural industry and advance global agriculture.

Currently, DJI Agriculture serves more than 40 countries and regions around the world. As of May 2022, there were more than 170,000 agricultural drones in China. In 2021 alone, agricultural drones operated on more than 66.67 million hectares of land, with spreading operations covering more than 8 million hectares, including fertilization of paddy and wheat, direct sowing of rice and rapeseed plants, regreening of grasslands, and even casting of feed into fish and shrimp farming ponds.

In addition, DJI has always focused on its customers' after-sales experience, with more than 900 service stores across 30 provinces nationwide, to provide customers with comprehensive technical support. Its well-designed pilot training system has produced more than 160,000 plant protection pilots in the country in recent years, while drawing more young entrepreneurs to the agricultural tech industry. We are committed to bringing DJI's drone technology to more agricultural applications and leading the transformation of the industry.

