Varenummer: CP.AG.00000420.01

# DJI AGRAS T10 SPRØJTEDRONE

**Den ideelle drone til nye landmænd**

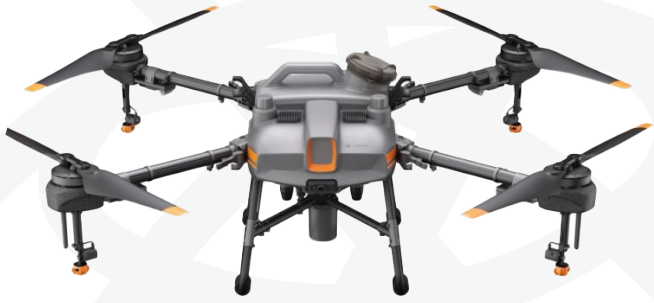
DJI Agras T10 er en meget kompakt, men alligevel kraftfuld luftløsning til landbrugssteder af alle størrelser og behov. Med sin 8 liters tank og sprøjtebredde på op til 5 meter gør det muligt at dække op til 15 Hektar/time. Dens sammenfoldelige truss-struktur er robust og pålidelig, hvilket muliggør effektiv foldning og udfoldning, bekvem transport og nemme overgange.

**Funktioner**

| | |
|---|---|
| Hourly operation efficiency: | 15 acres |
| High-precision radar | √ Spherical Omnidirectional Radar System |
| Remote control planning precision | √ (RTK/GNSS) |
| Removing air from pipes | √ One button Air Discharge |
| 3D operation planning of the AI engine | √ |
| High-precision flowmeter | √ (Dual-channel electromagnetic flowmeter |
| with an error of ±2%) | |
| Level gauge | Single-point level gauge |
| Maximum spray flow | 1.8 L/min with standard XR11001VS nozzle |
| | 2.4 L/min with optional XR110015VS nozzle |
| Pesticide tank installation method | Quick plugging pesticide tank |
| Battery installation method | Quick plug-and-play battery |
| One remote control for multiple drones | √ (one remote control for three drones) |
| D-RTK technology | √ |
| Up-looking radar module | √ |
| Flight dotting function | √ |
| Smart cruising/return function | √ |
| Intelligent supply-point prediction | x |
| Coordinated turn function | √ |
| Forward-looking FPV | √ |
| Backward-looking FPV | √ |
| Branch targeting technology | x |

## HOVEDFUNKTIONER

- Let og praktisk
- Automatiserede funktioner for enkel flyvning
- Præcisionssprøjtning uden redundans eller lækage
- Undgå blinde vinkler med de indbyggede omni directionale sensorer.
- Dobbelt FPV-kameraer for forbedret styring
- Højt oplyst skærm sikrer dig den ultimative kontrol
- Hurtigt skift mellem spray og spredning



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## Droneoplysninger

| | |
|---|---|
| Total weight (without batteries) | 13 kg |
| Rated take-off weight | 24.8 kg (near sea level) |
| Hovering precision (with goodGNSS signal) | |
| With D-RTK enabled: | ±10 cm (horizontal) and ±10 cm (vertical) |
| With D-RTK disabled: | ±0.6m (horizontal) and ±0.3m (vertical) (with the radar function enabled: ±0.1 m) |
| RTK/GNSS frequency bands: | RTK: GPS L1/L2, GLONASS F1/F2, BeiDou B1/B2, and Galileo E1/E5 |
| GNSS: | GPS L1, GLONASS F1, and Galileo E1 |
| Maximum power consumption: | 3,700 W |
| Hovering power consumption: | 3,200 W |
| Hovering time: | 17 min (@9,500 mAh & takeoff weight of 16 kg)<br>9 min (@9,500 mAh & takeoff weight of 24.8 kg) |
| Maximum pitch angle: | 15° |
| Maximum operating flight speed: | 7 m/s |
| Maximum level flight speed: | 10 m/s (with good GNSS signals) |
| Maximum endurable wind speed: | 8 m/s |
| Max Take-off Altitude: | 4,500m. Reduce the pesticide amount by 12% with each increase of 1,000 meters of altitude. |
| Recommended operating ambient humidity: | < 93% |
| Recommended operating ambient temperature: | 0 to 45 |

## Rack parameters

| | |
|---|---|
| Maximum rotor distance: | 1,480 mm |
| Dimensions: | 1,958 mm × 1,833 mm × 553 mm (with arms and blades extended)<br>1,232 mm × 1,112 mm × 553 mm (with arms extended and blades folded)<br>600 mm × 665 mm × 580 mm (with arms folded) |

## Power system - Motor

| | |
|---|---|
| Stator size | 100×10 mm |
| KV value | 84 rpm/V |
| Maximum pulling force | 11.2 kg/rotor |
| Maximum power | 2,500 W/rotor |
| Weight | 527 g |

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## Power system - Propellers

| | |
|---|---|
| Diameter × pitch: | 33×9 inch |
| Weight (a single blade): | 92 g |

## Power system - ESC

| | |
|---|---|
| Maximum operating current (continuous) | 32 A |
| Maximum operating voltage | 60.9 V (14S LiPo) |

## FPV camera FOV

| | |
|---|---|
| Horizontal: | 129°, vertical:82° |
| Resolution: | 1,280×720 15-30 fps |

## FPV spotlight

| | |
|---|---|
| Maximum light intensity | 13.2 lux @ 5-meter direct light |

## Spraying system - Operation tank

| | |
|---|---|
| Operation tank volume: | 8 L at full load |
| Operating load: | 8 kg at full load |

## Spraying system - Nozzles

| | |
|---|---|
| Sprayer model: | XR11001VS (standard)<br>XR110015VS (optional)<br>XR11002VS (optional) |
| Number of sprayers: | 4 |
| Maximum spray flow: | XR11001VS: 1.8 L/min<br>XR110015VS: 2.4 L/min<br>XR11002VS:3 L/min |

**Diameter of atomized particle**

| | |
|---|---|
| XR11001VS : | 130 - 250 mikrometer |
| XR110015VS : | 170 - 265 mikrometer |
| XR11002VS: | 190 - 300 mikrometer |

(depending on the actual operating environment, spraying flow and other factors)

| | |
|---|---|
| **Maximum effective spray width** | 3 - 5.5m (with 4 sprayers and a distance of 1.5 - 3 meters to crops) |

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## Spraying system - Water pump

| | |
|---|---|
| Water pump model: | Diaphragm pump |
| Operating voltage: | 15 V |
| Maximum flow: | 1.5 L/min ×1 |

## Spraying system - Flowmeter

| | |
|---|---|
| Flow measurement range: | 0.25 - 20 L/min |
| Flow measurement error: | < ±2% |
| Measurable liquid: | Conductivity > 50 mikrometer S/cm. Typical liquid: Tap water, aqueous |
| organic or | inorganic pesticides, and the like |

## Omnidirectional obstacle avoidance radar

| | |
|---|---|
| Model | RD2424R |
| Operating frequency: | SRRC/NCC/FCC: 24.05 to 24.25 GHz<br>MIC/KCC/CE: 24.05 to 24.25 GHz |
| Operating power consumption: | 12 W |
| Equivalent isotropic radiated power (EIRP): | SRRC: < 13 dBm; NCC/MIC/KCC/CE/<br>FCC:< 20 dBm |
| Height hold and terrain following | |
| Height measurement range: | 1 - 30m |
| Height hold range: | 1.5 - 15m |
| Maximum slope in mountain mode: | 35° |

**Obstacle avoidance system**

| | |
|---|---|
| Perceivable distance: | 1.5 - 30m |
| FOV: | 360° (horizontal), ±15° (vertical) |
| Conditions of use: | The relative flight height of the drone is above 1.5m and the speed below 7 m/s |
| Safe distance: | 2.5m (the distance between the tip of the blade and the obstacle after the drone is braked and hovering stably) |
| Obstacle avoidance direction: | Horizontally omnidirectional obstacle avoidance |
| Protection class: | IP67 |

## Up-looking radar

| | |
|---|---|
| Model: | RD2414U |
| Operating frequency: | SRRC/NCC/FCC: 24.05 to 24.25 GHz<br>MIC/KCC/CE:24.05 to 24.25 GHz |

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# DJI AGRAS T10 SPRØJTEDRONE

**Overhead obstacle avoidance**

| | |
|---|---|
| Perceivable distance: | 1.5 - 10m |
| FOV: | 80° |
| Conditions of use: | The drone flies for a relative distance over 1.5 m in the mode of take-off, landing and route climb mode |
| Safe distance: | 2m (the distance between the obstacle and the highest point on the top of the drone) |
| Obstacle avoidance direction: | Above the drone |
| Protection class: | IP67 |

**Equivalent isotropic radiated power (EIRP)**

| | |
|---|---|
| SRRC: | < 13 dBm;NCC/MIC/KCC/CE/ |
| FCC: | < 20 dBm |
| Operating power consumption: | 4 W |

## Battery

| | |
|---|---|
| Model: | BAX501-9500mAh-51.8V |
| Weight: | About 3.8 kg |
| Discharge rate: | 11.5C |
| Protection class: | IP54 + board-level embedment protection |
| Capacity: | 9,500 mAh |
| Voltage: | 51.8 V |

## Remote control

| | |
|---|---|
| Model: | RM500-ENT |
| Operating frequency of OcuSync 2.0: | 2.4000 to 2.4835 GHz<br>5.725 to 5.850 GHz |

Effective signal distance of OcuSync2.0 (without interference andblockage)

| | |
|---|---|
| SRRC: | 5 km; MIC/KCC/CE: 4 km; FCC: 7 km (measured at the operating height of 2.5m) |
| EIRP of OcuSync 2.0: | 2.4 GHz |
| SRRC/CE/MIC/KCC: 1 | 8.5 dBm; |
| FCC: | 29.5 dBm; 5.8 GHz |
| SRRC: | 28.5 dBm; |
| FCC: | 20.5 dBm |
| CE: | 12.5 dBm |

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**Wi-Fi Protocols**
Wi-Fi Direct, Wireless Display, and 802.11a/g/n/ac. 2 × 2 MIMO Wi-Fi is supported

| | |
|---|---|
| Wi-Fi operating frequency: | 2.4000 to 2.4835 GHz<br>5.150 to 5.250 GHz<br>5.725 ~ 5.850 GHz |
| Wi-Fi EIRP | 2.4 GHz |
| SRRC/CE: | 18.5 dBm; FCC/MIC/KCC: 20.5 dBm;<br>5.2 GHz |
| SRRC/FCC/CE/MIC: | 14 dBm; KCC: 10 dBm;<br>5.8 GHz |
| SRRC/FCC: | 18 dBm; CE/KCC: 12 dBm; |
| **Bluetooth protocol** | Bluetooth 4.2 |
| Bluetooth operating frequency: | 2.4000 to 2.4835 GHz |
| Bluetooth EIRP: | SRRC/MIC/FCC/CE/KCC:6.5 dBm |
| **Positioning:** | GPS + GLONASS |
| **Display:** | 5.5-inch screen with a resolution of 1,920×1,080 and brightness of 1,000 cd/m$^2$, and Android OS |
| **Operating memory (RAM):** | 4GB LPDDR4 |
| **Storage space (ROM):** | 32 GB + scalable storage space, and a microSD card with the capacity up to 128 GB and transfer speed of UHS-I Speed Grade 3 is supported |
| **HDMI:** | HDMI 1.4 |
| **Supported drones:** | T30 and T10 crop protection drones |
| **Operating power consumption:** | 18 W |
| **Operating ambient temperature:** | -10° to 40° |
| **Storage ambient temperature**: | -30° to 60° (within 1 month)<br>-30° to 45° (1 to 3 months)<br>-30° to 35° (3 to 6 months)<br>-30° to 25° (more than 6 months)<br>(with the capacity of built-in batteries at 40 to 60%) |
| **Charging ambient temperature:** | 5° to 40° |

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## Built-in battery of remote control

| | |
|---|---|
| Built-in battery: | 18650 lithium ion battery (5,000 mAh at 7.2V) |
| Battery life: | 2 hours |
| Charging method: | Standard 12V/2A USB quick charger |
| Charging time: | 2.5 hours (with the standard 12V/2A USB quick charger and the remote control powered off) |
| Power supply current/voltage of remote control USB-A port: | 5 V / 1.5 A |

## External smart battery of remote control

| | |
|---|---|
| Model: | B37-4,920mAh-7.6V |
| Battery type: | 2S LiPo |
| Capacity: | 4,920 mAh |
| Voltage: | 7.6 V |
| Capacity: | 37.39 Wh |
| Charging ambient temperature: | 5° to 40° |
| Battery life: | 2 hours |

## External smart battery charging manager of remote control

| | |
|---|---|
| Model: | WCH2 |
| Input voltage: | 17.3 - 26.2 V |
| Output voltage and current: | 8.7V and 6A |
| Operating ambient temperature: | 5° to 40° |

## Power adapter of external smart battery charging manager

| | |
|---|---|
| Model: | 14-057N1A |
| Input voltage: | 100 to 240V and 50/60 Hz |
| Output voltage: | 17.4 V |
| Rated power: | 57 W |

## T-Series Spreading System 3.0 (8kg)

| | |
|---|---|
| Weight of distribution system: | 3.1kg |
| Maximum opening area: | 44.6 $cm^2$ |
| Applicable materials: | Dry solid particles with a diameter of 0.5 to 5 mm |
| Volume of distribution tank: | 12L |
| Maximum internal load of distribution tank: | 10kg |
| Protection class: | IP67 |

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**Input voltage**

| | |
|---|---|
| Power: | 60V |
| Control: | 15V |
| Maximum power: | 60V@250W<br>15V@50W |
| Recommended operating ambient temperature: | 0° to 40° |
| Dimensions: | 05×245×375mm |
| Maximum rotation speed: | 1,300 RPM |

## T10 smart charging manager

| | |
|---|---|
| Dimensions: | 300×280×230 mm |
| Total weight: | 8.1 kg |
| Input voltage: | 100-264 Vac |
| Output voltage: | 40-60 V |
| Rated power: | 3,600 W |
| Charging current: | 50 A |
| Charging time: | 7 to 10 min |
| Charging voltage precision: | +/-0.1 V |
| Charging current precision: | +/-1 A |
| Number of output channels: | 2 |
| **Protection functions** | Over-temperature, over-voltage, under-voltage, short-circuit, and fan stall protection |
| **Charging ambient temperature:** | -20° to 45° |
| **Charging safety:** | AC wire protection, power wire protection, and charge con nector protection |

**Notes**

Vi tager forbehold for slåfejl og rettelser.



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