

Comparison Between T50 and T40

Aircraft parameter		
	T50	T40
Weight	39.9kg (battery excluded)	38 kg (without battery)
	52kg (battery included)	50 kg (with battery)
MTOW	92 kg (standard 2 centrifugal nozzles+ 40L water tank	
MTOW of spraying	103.5 kg (with orchard kit, add additional 2pcs centrifugal nozzle and 50 L water tank)	90 kg (at sea level)
MTOW of spreading	103 kg	101 kg (at sea level)
wheel base	2200mm	2184 mm
Dimension of Spraying:	arm unfold, propellers unfold:2800×3085×820 mm	2800 mm × 3150 mm × 780 mm
	arm unfold, propellers folded:1590×1900×820 mm	1590 mm × 1930 mm × 780 mm
	arm folded, propellers folded:1115×750×900mm	1125 mm × 750 mm × 850 mm (arms folded)
Dimension of Spreading:	arm unfold, propellers unfold:2800×3085×860 mm	
	arm unfold, propellers folded:1590×1900×860 mm	
	arm folded, propellers folded:1115×760×900 mm	
Hovering Accuracy Range (with strong GNSS signal)	RTK positioning enabled:±10 cm horizontal, ±10 cm vertical	RTK positioning enabled:±10 cm horizontal, ±10 cm vertical
	RTK positioning disabled:±60 cm horizontal and ±30 cm vertical	RTK positioning disabled:±60 cm horizontal and ±30 cm vertical (radar enabled: ±10 cm)
RTK/GNSS Operating Frequency	GNSS: GPS L1, BeiDou B1, GLONASS F1, Galileo E1, QZSS L1	RTK: GPS L1/L2, GLONASS F1/F2, BeiDou B1/B2, Galileo E1/E5 GNSS: GPS L1, GLONASS F1, Galileo E1, BeiDou B1
Max flight radius can be set	2000 m	2000 m
Max Wind Resistance	6 m/s	6 m/s
Propulsion System - Motor		
stator size:	100×33 mm	100×33 mm
motor KV value	48 rpm/V	48 rpm/V
motor power	4000 W/rotor	4000 W/rotor
Propulsion System - Propeller		
material	Nylon carbon fiber	Nylon carbon fiber
propeller size	54 inch	54 inch
main propeller diameter	1375mm	1375mm
QTY of propeller (pair)	8	8
Dual Atomized Spraying System - Operation Box		
material	plastic (HDPE)	plastic (HDPE)
water tank capacity	40 L, 50L optional for orchard kit	40 L
Operating Payload	40 kg[1]	40 kg[1]
quantity of water tank	1	1
Dual Atomized Spraying System - Sprinkler		
nozzle model	LX8060SZ	LX8060SZ
nozzle quantity	2 pcs, you can add two extra nozzle when use orchard kit	2 pcs
nozzle space	1570 mm (rear sprinkler bar)	/
atomized droplet size	50-330 μm	50-300 μm
spray width	4-11 m (relative operating altitude 3m)	11 m (relative operating altitude 2.5 m, flight speed 7 m/s)

Dual Atomized Spraying System - Water Pump		
pump type	imeppler water pump (megnatic drived)	imeppler water pump (megnatic drived)
pump quantity	2 pcs	2 pcs
flow rate of one pump	0-12 L/min	6 L/min*2
max flow rate	16 L/min (2 pcs nozzle)	12 L/min
	24 L/min (4 pcs nozzle)	
Spreading System		
Applicable Materials	Solid dry particles with a diameter of 0.5 to 5 mm	Solid dry particles with a diameter of 0.5 to 5 mm
spreader capacity	75 L	70 L
spreader max loading weight	50 kg[1]	50 kg[1]
standard spreading width	8 m	7 m
Active Phased Array Radar		
Model	RD241608RF (front Active Phased Array Radar)	RD2484R(Active Phased Array Omnidirectional Radar)
	RD241608RB (rear Active Phased Array Radar)	RD2484B(Active Phased Array Backward and Downward Radar)
Tarrain following	Max incline:50°	Max incline: 30° (RD2484R)
	Sensible distance (horizontal):1-50 m	Sensible distance (horizontal):1-50 m (RD2484R) Sensible distance (rear):1.5-30 m (RD2484B)
	Fixed altitude range:1.5-30 m	Fixed altitude range:1.5-30 m (RD2484B)
Obstacle abvoidance	Sensible distance (omni-directional):1-50 m	Sensible distance (horizontal): 1.5-50 m Sensible distance (rear): 1.5-30 m
FOV	front Active Phased Array Omnidirectional Radar:360° horizontal, ±45° vertical , ±45° above (cone shape)	FOV: 360° horizontal, ±45° vertical (RD2484R)
	rear Active Phased Array Omnidirectional Radar:360° horizontal, ±45° vertical	FOV: ±60° horizontal, ±25° vertical (RD2484B)
	Operating conditions: The relative height of the aircraft should be higher than 1.5 m and the horizontal velocity should not exceed 10 m/s and the vertical velocity should not exceed 3 m/s	Operating conditions:Available during takeoff, landing, and ascending when an obstacle is more than 1.5 m above the aircraft
	Safe distance: 2.5 m (distance between the propeller tip and obstacle when the aircraft is hovering after braking)	Safe distance: 2.5 m (distance between the propeller tip and obstacle when the aircraft is hovering after braking)
	Sensing direction: omni-directional	Sensing direction: upward and backward
Binocular Vision System		
Measurable Range	0.5-29 m	0.4-25 m
Effective Sensing Speed	≤10 m/s	≤7 m/s
FOV	Horizontal: 90; Vertical: 106°	Horizontal: 90; Vertical: 106°
Work Environment Requirements	Normal lighting with clearly textured surfaces	Normal lighting with clearly textured surfaces
DJI remote controller		
Model	RM700B	
O3 Pro Operating Frequency	2.4000 GHz to 2.4835 GHz 5.725 GHz to 5.850 GHz	2.4000 GHz to 2.4835 GHz 5.725 GHz to 5.850 GHz
O3 Pro Signal Effective Distance	SRRC: 5 km	SRRC: 5 km
	MIC/KCC/CE: 4 km	MIC/KCC/CE: 4 km
	FCC: 7 km	FCC: 7 km
	aircraft altitude at 2.5 m in an unobstructed environment with no interference	
Wi-Fi Protocol	WIFI 6	WIFI 6
Wi-Fi Operating Frequency	2.4000 to 2.4835 GHz	2.4000 to 2.4835 GHz
	5.150 to 5.250 GHz	5.150 to 5.250 GHz
	5.725 to 5.850 GHz	5.725 to 5.850 GHz
Bluetooth Protocol	Bluetooth 5.1	Bluetooth 5.1

Bluetooth Operating Frequency	2.4000-2.4835 GHz	2.4000-2.4835 GHz
Location	GPS+Galileo+BeiDou	GPS+Galileo+BeiDou
Display Screens	7.02-inch touch LCD with 1920*1200 resolution and 1200cd/m brightness2	7.02-inch touch LCD with 1920*1200 resolution and 1200cd/m brightness2
Operating temperature	-20°C to 50°C (-4°F to 122°F)	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-30°C to 45°C (within one month)	-30°C to 45°C (within one month)
	-30°C to 35°C (between one month and three months)	-30°C to 35°C (between one month and three months)
	-30°C to 30°C (between three months and one year)	-30°C to 30°C (between three months and one year)
Charging Temperature	5° to 40°C (41° to 104°F)	5° to 40°C (41° to 104°F)
Internal Battery Life	3.3 hours	3.3 hours
External Battery Life	2.7 hours	2.7 hours
Charging Type	Use a USB-C charger with a maximum rated power and voltage of 65W and 20 V. The DJI Portable Charger is recommended.	Use a USB-C charger with a maximum rated power and voltage of 65W and 20 V. The DJI Portable Charger is recommended.
Charging Time	Two hours for both internal and internal plus external batteries (to use the official charging method when the aircraft is off)	Two hours for both internal and internal plus external batteries (to use the official charging method when the aircraft is off)
Intelligent Flight Battery		
installation method	plug in	plug in
weight	Approx. 12.1 kg	Approx. 12kg
capacity	30 Ah	30 Ah
voltage	52.22 V	52.22 V
Multifunctional Inverter Generator-D12000IE and D12000IEP		
output channel	1. DC charging output 42-59.92V/9000W	1. DC charging output 42-59.92V/9000W
	2. Power supply for air-cooled heat sink 12V/6A	2. Power supply for air-cooled heat sink 12V/6A
	3. AC output 220V/1500W	3. AC output 220V/1500W or 120V/750W
charging time for one battery	To fully charge one battery (DB1560 battery) takes 9-12 mins	To fully charge one battery (T40 battery) takes 9-12 mins
gasoline tank capacity	30 L	30 L
startup method	Starting the Generator via the One-Button Start Switch	Starting the Generator via the One-Button Start Switch
max power	12 KW	12 KW
gasoline type	92# gasoline	92# gasoline
fuel consumption	500 ml/kWh	500 ml/kWh
engine oil type	SJ10W-40	SJ10W-40
intelligence charger		
charger model	CSX702-9500	CSX602-9500
dimension	400×266×120 mm	400×266×120 mm
weight	11.2 kg	12.7kg
input voltage	100-240 Vac	
output voltage	59.92 V	
output current	175A max	190A max
rated power	9000 W	9000 W
charging time	9 -12mins for fully charging one battery (DB1560 battery)	9 -12mins for fully charging one battery (T40 battery)
protection function	high voltage protection、over charging protection, low voltage protection, high temperature protection	high voltage protection、over charging protection, low voltage protection, high temperature protection

NEW Optional device for signal extension use

When the image transmission signal is seriously blocked by objects like tree or mountain, this module can also be selected, keep image transmission always online, and the flight is safer

model	RL01-65	not available
dimension	120×110×100mm	
weight	≤575g	
input voltage	5-15V	
power	11W	
battery capacity	6500mAh	
endurance	4 hours	
operating frequency	2.4000 GHz to 2.4835 GHz 5.725 GHz to 5.850 GHz	
Signal Effective Distance	SRRC:5 km	
	MIC/KCC/CE:4 km	
	FCC:7 km	
	(aircraft altitude at 2.5 m in an unobstructed environment with no interference)	
charging time	2 hours 20mints with standard charger	
IP rating	IP55	