

Specifications of L50		
General specifications		
	EU	US
Payload	50 l spraying system	13.2 gal spraying system
Max. take-off weight	108 kg	238.1 lbs
Total weight (with battery) *	51.9 kg	114.4 lbs
Total weight (without battery) *	39.3 kg	86.6 lbs
Maximum characteristic dimension **	3710 mm	146.1 in
Dimensions (arms & propellers unfolded) (L x W x H)	3050 x 3050 x 840 mm	120.1 x 120.1 x 33.1 in
Dimensions (arms and propellers folded) (L x W x H)	1160 x 740 x 840 mm	45.7 x 29.2 x 33.1 in
Maximum flight time	Unloaded: 20 min, Loaded: 10.5 min	Unloaded: 20 min, Loaded: 10.5 min
GNSS	GPS, GLONASS, Galileo, BeiDou	GPS, GLONASS, Galileo, BeiDou
RTK correction	Optional Emlid RS mobile base station, Network RTK	Optional Emlid RS mobile base station
Hovering precision	±10 cm (RTK) ±1.5 m (without RTK)	±3.93 in (RTK) ±59 in (without RTK)
Heading	Dual-RTK	Dual-RTK
Rotor dimensions	56 x 20	56 x 20

Battery type	Li-ion Smart	Li-ion Smart
Battery capacity	40000 mAh	40000 mAh
Battery voltage (nominal)	64.8V	64.8V
Battery weight	12.6 kg	27.8 lbs
Battery charging time	approx. 20 minutes	approx. 20 minutes
Battery charger channels	2 ports	2 ports
Battery charger power	2x6000 W	2x6000 W
Camera	Wide angle, vertically adjustable (0-180°)	Wide angle, vertically adjustable (0-180°)
Camera resolution	FHD	FHD
Effective signal range of RC	3 - 6 km	1.86 - 3.73 mi
Altitude control	LiDAR, Barometric, GPS	LiDAR, Barometric, GPS
Obstacle detection and collision avoidance	3D, LiDAR based (ABZ sense)	3D, LiDAR based (ABZ sense)
Intrusion protection	Limited water and dust resistance	Limited water and dust resistance
Spraying System		
Maximum per Hectare Performance	24 ha/h	59.3 ac/h
Average per Hectare Performance	18-21 ha/h	44.5 - 52 ac/h
Hydraulic system	Non-pressurized	Non-pressurized
Pump type	Impeller	Impeller

Maximum flow	16 l/min	4.2 gal/min
CDA technology	Rotating disc	Rotating disc
Number of Nozzles	2	2
Adjustable droplet size	60 – 1000 µm	60 – 1000 µm
Spray tank capacity	50 l	13.2 gal
Adjustable working width	8-12 m	26.2 - 39.4 ft
Spreading system compatibility		
Seeder & Spreader	70 l	18.5 gal
Flight planning		
Spot spraying	✓	✓
Area and polyline shapefile import	✓	✓
Data security	✓	✓
No data transmission to remote servers	✓	✓
Frequency bands		
Radio Control and Telemetry	2.4 GHz	2.4 GHz
WLAN	2.4 GHz	2.4 GHz
LoRA	862–1020 MHz	862–1020 MHz
Flight		
Max. pitch angle	16°	16°

Max. operating flight speed	8 m/s	17.9 mi/h
Max. level speed	10 m/s	22,4 mi/h
Max. flight altitude (AMSL)	4500 m	14763.78 ft
Max. flight altitude (AGL)	120 m	393.7 ft
Max. tolerable wind speed	10 m/s	22.4 mi/h

*The weight parameters vary by $\pm 1\text{kg}$ according to the final product configuration

*The weight parameters vary by $\pm 2.2\text{ lbs}$ according to the final product configuration

** Maximum distance between the tips of two opposite propellers