

Specifications of S50	
General specifications	
Total weight (W/O batteries)	30,4 kg
Max. take-off weight	70 kg
Dimensions (arms & propellers unfolded)	2435 x 2541 x 805 [mm]
Dimensions (arms unfolded, propellers folded)	1520 x 1600 x 805 [mm]
Dimensions (arms and propellers folded)	979 x 683 x 805 [mm]
Max. hovering time	Unloaded: 17.5 min, Loaded: 9 min
GPS	GPS, GLONASS, Galileo, BeiDou
Heading	Dual-RTK
Hovering precision	±10 cm (RTK) ±2m (without RTK)
Rotor dimensions	43 x 14
Battery type	Li-Po Smart
Battery capacity	30000 mAh
Battery voltage	51.8V
Battery weight	9.4 kg
Battery charging time	min. 15 minutes
Battery charger	4 ports (2 balance)
Battery charger power	3000 W
Spreading system	
Total weight	5.18kg
Spreader weight	1.6kg
Tank weight	3.58kg
Voltage range	DC 24V-60V
Support particle diameter	0.5-6.0mm (Dry granules)

Valve angle	0-60°
Maximum speed	1100r/min
Spread wide	12 m
Spreading system power	120W
Working temperature	0-40°C
Tank capacity	50L
Execution of work	
Technology developed for European Agricultural conditions	
Intrusion protection	Limited water and dust resistance
Easy transportability	
Modular payload attachability	
Obstacle detection and collision avoidance	3D, LiDAR based (ABZ sense)
FPV camera	Wide angle, vertically adjustable (0-180°)
Camera resolution	FHD
Effective signal range of RC	~3,5 km
Altitude measurement	LiDAR
Flight planning	
Software source code	Open
Spot spreading	
Area shapefiles import	
Line shapefiles import	
Software compatibility	Multiple

RTK base	Optional Emlid RS mobile base station
Data security	
No data transmission to remote servers	
Frequency bands	
Radio Control and Telemetry	2.4GHz
WLAN	2.4GHz
Flight	
Max. pitch angle	25°
Max. operating flight speed	7 m/s
Max. level speed	15 m/s
Max. flight altitude (AMSL)	4500 m
Max. flight altitude (AGL)	120 m
Max. tolerable wind speed	10 m/s