ABZ INNOVATION

Specifications of L10 Light		
General specifications		
	EU	**US**
Payload	6 l Spraying system	1.6 gal Spraying system
Max. take-off weight	19.2 kg	42.5 lbs
Total weight (with battery) *	19.2 kg	42.5 lbs
Total weight (without battery) *	14.7 kg	32.4 lbs
Maximum characteristic dimension **	2290 mm	90.16 in
Dimensions (arms & propellers unfolded) (L x W x H)	2060 x 1600 x 600 mm	81.1 x 63 x 23.6 in
Dimensions (arms and propellers folded) (L x W x H)	770 x 540 x 680 mm	30.3 x 21.3 x 27.8 in
Maximum flight time	Unloaded: 26 min, Loaded: 12.5 min	Unloaded: 26 min, Loaded: 12.5 min
GPS	GPS, GLONASS, Galileo, BeiDou	GPS, GLONASS, Galileo, BeiDou
RTK correction	Optional Emlid RS RTK base station	Optional Emlid RS RTK 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	30 x 11	30 x 11
Battery type	Li-Po Smart	Li-Po Smart

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Battery capacity	16000 mAh	16000 mAh
Battery voltage (nominal)	44.4V	44.4V
Battery weight	4.2 kg	9.3 lbs
Battery charging time	min. 11 minutes	min. 11 minutes
Battery charger channels	4 ports (2 balance)	4 ports (2 balance)
Battery charger power	3000 W	3000 W
Camera	Wide angle, vertically adjustable (0-180°)	Wide angle, vertically adjustable (0-180°)
Camera resolution	FHD	FHD
Effective signal range of RC	~3.5 km	~2.17 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	6.5 ha/h	16 ac/h
Average per Hectare Performance	4-5 ha/h	9.8-12.3 ac/h
Hydraulic system	Non-pressurized	Non-pressurized
Pump type	Membrane	Membrane
Maximum flow	5 l/min	1.32 gal/min

CDA technology	Rotating disc	Rotating disc
Number of Nozzles	2	2
Adjustable droplet size	60 – 1000 µm	60 – 1000 µm
Adjustable working width	1.5 - 6 m	4.9 - 19.7 ft
Spreading system compatibility		
Seeder & Spreader	22 l (max. 6 kg)	5.8 gal (max. 13.2 lbs)
Trichogramma	8 l	2.1 gal
Execution of work		
Technology developed for European Agricultural conditions	✓	✓
Easy transportability	✓	✓
Modular payload attachability	✓	✓
Flight planning		
Spot spraying	✓	✓
Area and polyline shapefile import	✓	✓
Data security	✓	✓
No data transmission to remote servers	✓	✓

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Frequency bands		
Radio Control and Telemetry	2.4GHz	2.4GHz
WLAN	2.4GHz	2.4GHz
LoRA	862–1020 MHz	862–1020 MHz
Flight		
Max. pitch angle	20°	20°
Max. operating flight speed	8 m/s	17.9 mi/h
Max. level speed	15 m/s	33.6 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 ±1kg according to the final product configuration

*The weight parameters vary by ±2.2 lbs according to the final product configuration

** Maximum distance between the tips of two opposite propellers