ABZ INNOVATION

Specifications of L30 V2		
General specifications		
	EU	**US**
Payload	30 l spraying system	7.9 gal spraying system
Max. take-off weight	72 kg	158.7 lbs
Total weight (with battery) *	41.9 kg	92.4 lbs
Total weight (without battery) *	32 kg	70.5 lbs
Maximum characteristic dimension **	3130 mm	123.2 in
Dimensions (arms & propellers unfolded) (L x W x H)	2490 x 2600 x 780 mm	98 x 102.4 x 30.7 in
Dimensions (arms and propellers folded) (L x W x H)	1040 x 685 x 780 mm	41 x 27 x 30.7 in
Maximum flight time	Unloaded: 17.5 min, Loaded: 9 min	Unloaded: 17.5 min, Loaded: 9 min
GPS	GNSS, GLONASS, Galileo, BeiDou	GNSS, GLONASS, Galileo, BeiDou
RTK correction	Network RTK Optional Emlid RS RTK base station	Network RTK 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	43 x 14	43 x 14

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Battery type	Li-Po Smart	Li-Po Smart
Battery capacity	30000 mAh	30000 mAh
Battery voltage (nominal)	53.2V	53.2V
Battery weight	9.9 kg	21.8 lbs
Battery charging time	min. 15 minutes	min. 15 minutes
Battery charger channels	2 x 4 ports	2 x 4 ports
Battery charger power	2 x 3000 W	2 x 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	21 ha/h	51.9 ac/h
Average per Hectare Performance	15-17 ha/h	37-42 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	30 l	7.9 gal
Adjustable working width	5-10 m	16.4-32.8 ft
Spreading system compatibility		
Seeder & Spreader	50 l	13.2 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	15°	15°

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 ±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