










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

|   |  |  |
|---|--|--|
| <b>Battery type</b>                               | Li-ion Smart                               | Li-ion Smart                               |
| <b>Battery capacity</b>                           | 40000 mAh                                  | 40000 mAh                                  |
| <b>Battery voltage (nominal)</b>                  | 64.8V                                      | 64.8V                                      |
| <b>Battery weight</b>                             | 12.6 kg                                    | 27.8 lbs                                   |
| <b>Battery charging time</b>                      | approx. 20 minutes                         | approx. 20 minutes                         |
| <b>Battery charger channels</b>                   | 2 ports                                    | 2 ports                                    |
| <b>Battery charger power</b>                      | 2x6000 W                                   | 2x6000 W                                   |
| <b>Camera</b>                                     | Wide angle, vertically adjustable (0-180°) | Wide angle, vertically adjustable (0-180°) |
| <b>Camera resolution</b>                          | FHD  | FHD  |
| <b>Effective signal range of RC</b>               | 3 - 6 km                                   | 1.86 - 3.73 mi                             |
| <b>Altitude control</b>                           | LiDAR, Barometric, GPS                     | LiDAR, Barometric, GPS                     |
| <b>Obstacle detection and collision avoidance</b> | 3D, LiDAR based (ABZ sense)                | 3D, LiDAR based (ABZ sense)                |
| <b>Intrusion protection</b>                       | Limited water and dust resistance          | Limited water and dust resistance          |
| <b>Spraying System</b>                            |  |  |
| <b>Maximum per Hectare Performance</b>            | 24 ha/h                                    | 59.3 ac/h                                  |
| <b>Average per Hectare Performance</b>            | 18-21 ha/h                                 | 44.5 - 52 ac/h                             |
| <b>Hydraulic system</b>                           | Non-pressurized                            | Non-pressurized                            |
| <b>Pump type</b>                                  | Impeller                                   | Impeller                                   |
| <b>Maximum flow</b>                               | 16 l/min                                   | 4.2 gal/min                                |

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

| <b>Flight</b>                      |   |             |
|------------------------------------|---|-------------|
| <b>Max. pitch angle</b>            | 16°   | 16°         |
| <b>Max. operating flight speed</b> | 8 m/s   | 17.9 mi/h   |
| <b>Max. level speed</b>            | 10 m/s  | 22.4 mi/h   |
| <b>Max. flight altitude (AMSL)</b> | 4500 m  | 14763.78 ft |
| <b>Max. flight altitude (AGL)</b>  | 120 m   | 393.7 ft    |
| <b>Max. tolerable wind speed</b>   | 10 m/s  | 22.4 mi/h   |
| <b>EMC Certificates</b>            |   |             |
| <b>FCC IDs</b>                     | 2ABCB-RPI5, XPYANNAB4,<br>2BN8IUNIRC7RFMD, RID-LR101H                                 |             |
| <b>CE</b>                          |  |             |

\*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