# LiDARit SPARROW


| Max Range @ Reflectivity | Echoes |
|---|---|
| 450 m @ 80% | 3 |

| Point Cloud RMSE @100m | Recommended Scan Height | Point density by m² @ 10m/s |
|---|---|---|
| 8 cm | 150 m | 190pt/m² |

## BETTER PERFOMANCE, BIGGER PRECISION

- Its reduced weight allows better performance in the field:
  - 65 Hectares in Drones (With 50% overlap)
- Sensor LIVOX Avia
- 8 cm precision at 50 meters distance.
- Its long range allows it to fly at heights of over 130m.
- Get deliverables such as Classified Point Clouds, Digital Terrain Models, Contour Lines, 3D Vectorization among others with just two clicks.

**Use the LiDARit Sparrow in projects of:**

Agriculture | Forestry Science | Mining

Construction | Power Lines | Land Survey

+1 (321) 948-1386

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## Plataform

| | |
|---|---|
| Range: | 190m(@10%) |
| Recommended Scan Height: | 150m |
| Recommended Distance between lines: | 100m |
| Point Cloud RMSE @ 50m: | 8cm |

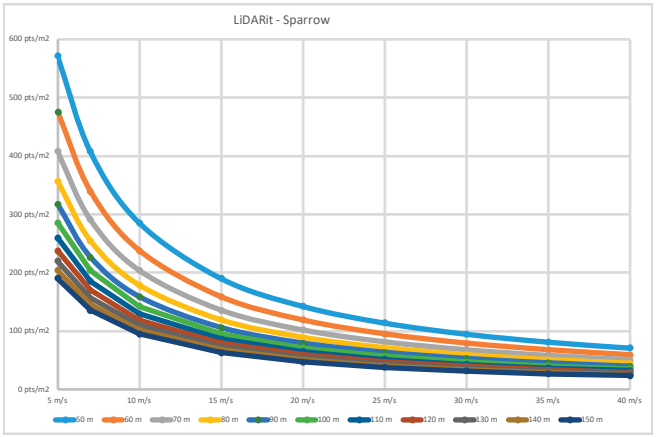
## LiDAR Sensor

| | |
|---|---|
| Laser: | 1 Channels |
| Number of echoes: | 3 |
| Scanning method: | MEMS LASER |
| Laser class: | Class 1 |
| Pulses: | 240k/s |
| Field of view: | 70° |
| Resolution: | 0.0686*2.5 |
| Point density at 70m (Overlap): | 190p/m^2 |

## Mechanical/Eléctrical/Operational

| | |
|---|---|
| Voltage main port: | 19.5-30V |
| Weight: | 1100gr |
| Power Consumption: | among 20 and 35W |

## Point density at certain speed




## Navigation System

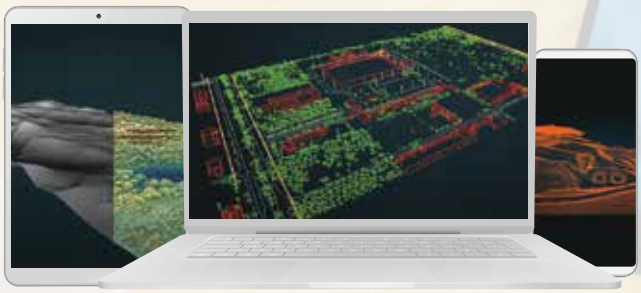
| | |
|---|---|
| Constellation support: | GPS, GLONNAS, GALILEO, BEIDU |
| Support Alignment: | Static, Kinematic,dual antenna |
| Operation mode: | Real-time and postprocessing |
| Accuracy Position: | 1cm + 1ppm RMS horizontal |
| Heading RMSE: | 0,038° |
| Position accuracy: | ± 1cm |
| Roll and pitch accuracy: | 0,008° |
| Data rate: | 200 Hz |

# LiDARit Manager included

## Data processing by just two clicks

Boost your and your collaborators capabilities with accurate information validated by LiDAR experts.

| | |
|---|---|
| **Data processing** | Automatic |
| **Security:** | Encrypted end to end |



**Additional analysis**

Design of hydraulic irrigation, design of plantations, environmental studies, maintenance of high voltage lines, among others.

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