



Ultra-light, standalone lidar system for UAVs (laser scanner, IMU, RTK GPS, processing unit)

Technical specification

- Class 1 laser
- Wavelength: 905 nm
- Beam divergence: 0.1 x 0.8°

- Maximum range: 100 m typ. 150 m abs.
- Range resolution: 4 cm

- Absolute accuracy (XY): 10 cm + 1% x altitude ¹
- Absolute accuracy (Z): 10 cm + 0.5% x altitude ¹

- Scanner field of view: 60° typ. 100° max.
- Scan angle resolution: 0.125°
- 100 scans per second
- Echos per pulse: up to 3

Power and Dimensions

- Power: 1.5A@11.2V
- Weight: 2 kg battery included
- Autonomy: 2 hours typ.
- Size: L 150mm x W 200mm x H 150mm

¹ expected

Environmental

- Operating temperature: -20 °C to +50 °C

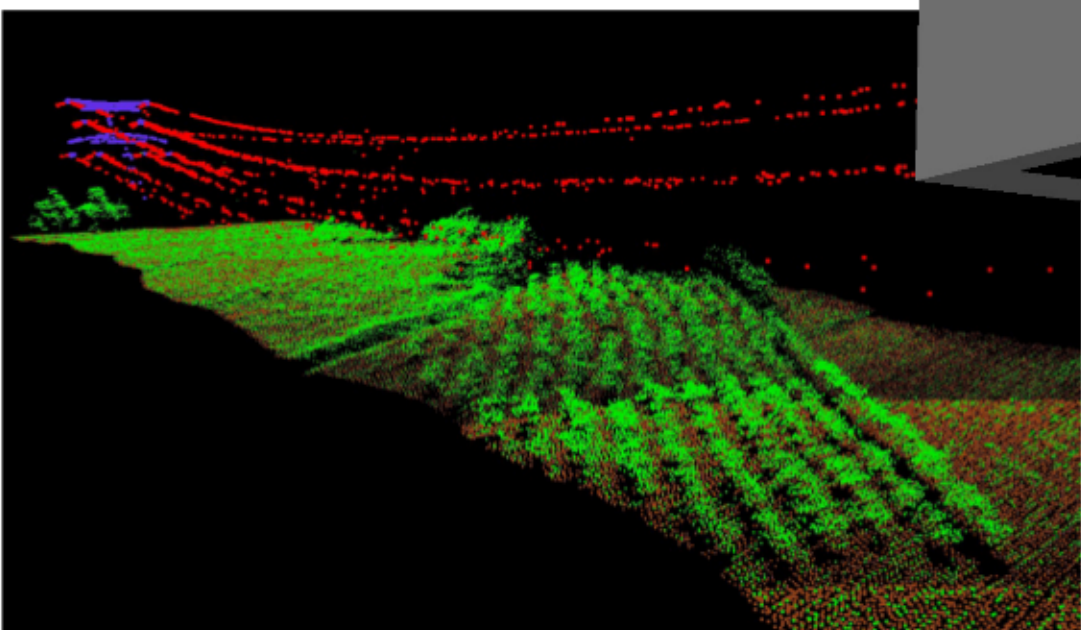
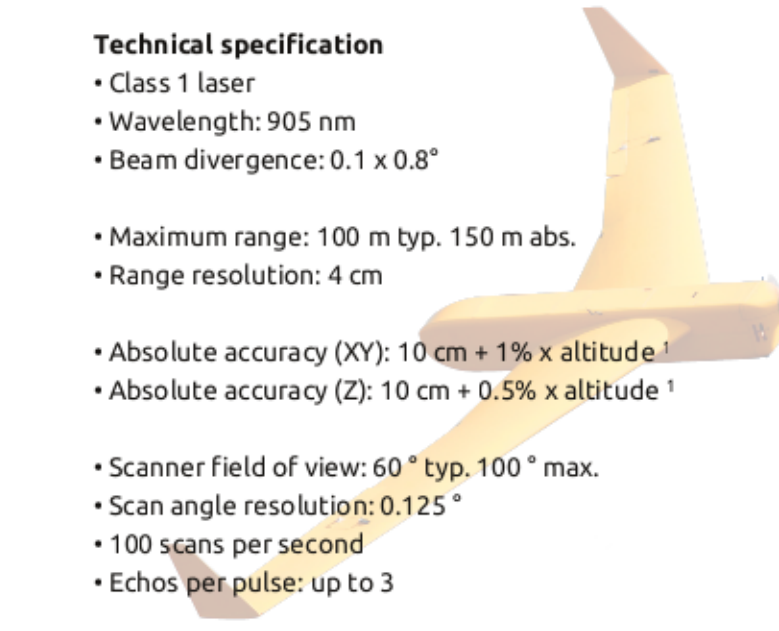
Accessories

- 2 batteries + charger
- Screen
- Remote control

Case studies

- Flight altitude above ground level: 25 m
- Flight speed: 10 km/h
- Point density: 250 echos/m²
- Swath: ~25 m

- Flight altitude above ground level: 75 m
- Flight speed: 55 km/h
- Point density: 12 echos/m²
- Swath: ~75 m



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